

# **DIABETES**

## **LITERATURE INDEX**

NATIONAL INSTITUTE OF ARTHRITIS,  
METABOLISM, AND DIGESTIVE DISEASES

U.S. DEPARTMENT OF  
HEALTH, EDUCATION, AND WELFARE

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# DIABETES LITERATURE INDEX

(By Authors, Hierarchy, and by Keywords in the Title)

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# DIABETES ALTERNATIVE INDEX

The purpose of this index is to provide a comprehensive list of alternative therapies for the management of diabetes.

A complete list of alternative therapies for the management of diabetes.

This index is intended to provide a comprehensive list of alternative therapies for the management of diabetes.

## Index

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## PREFACE

*Diabetes Literature Index* is a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases which has been prepared from MEDLARS (Medical Literature Analysis and Retrieval System) tapes furnished by the National Library of Medicine. This specialized information medium is being published to fill an existing great need in the field of diabetes and to assist the Institute in meeting its obligations to foster and support laboratory and clinical research into the nature, causes, and therapy for diabetes. Publication of *Diabetes Literature Index* makes available an index of all current scientific papers relevant to this field from the world literature.

It is hoped that the issuing of *Diabetes Literature Index* under the auspices of the National Institute of Arthritis, Metabolism, and Digestive Diseases will provide a much needed current awareness tool to scientists and will facilitate greater integration of research and clinical efforts in this field. *Diabetes Literature Index* has been published monthly since January 1966 and is cumulated at the end of each calendar year.

This publication is available free to National Institutes of Health grantees and contractors working in the field of diabetes, and libraries of medical schools. Requests from these *qualified* individuals to receive free copies of this publication must include their grant or contract number and the title of their project. These requests as well as address changes and other communications from these qualified recipients of free copies should be addressed to:

Scientific Communications Office  
Diabetes Literature Index  
National Institute of Arthritis,  
Metabolism, and Digestive Diseases  
Building 31, Room 9A-03  
Bethesda, Maryland 20014

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The Secretary of the Department of Health, Education, and Welfare has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through April 30, 1978

## EDITORIAL NOTE

*Diabetes Literature Index*, a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases (NIAMDD), was brought about through the cooperative efforts of two divisions of the National Institutes of Health (NIAMDD and the National Library of Medicine), a professional society (American Diabetes Association), three Universities (University of Minnesota, University of Rochester, and Case Western Reserve University) as well as a number of individual scientists. In this rather unique cooperative project, initiated in 1958, duplication of effort has been reduced to a minimum. The digital information generated from the original input of bibliographic citations to the National Library of Medicine's MEDLARS system is processed by computer in several different ways and ultimately used to compose the final printed pages of this *Diabetes Literature Index*.

Each month the MEDLARS magnetic tape furnished by the National Library of Medicine (NLM) is used for identification of the diabetes related literature. All bibliographic citations classified under subject headings which we have designated as Priority I, represent articles that are 100% diabetes-related; they are automatically copied onto a new magnetic tape and constitute over seventy percent of the citations appearing in this index. The citations appearing under Priority II and III are subject headings which include both diabetes-related and unrelated articles; these are printed on cards by the computer. The diabetes related citations are identified manually and the corresponding digital information is added to the next month's Priority I magnetic tape.

In the selection of this bibliography, diabetes-related literature has been defined in a rather arbitrary but broad, comprehensive manner with a view toward providing the widest possible coverage of related areas. To this end the following subjects have been included: the Islets of Langerhans in the pancreas, including their structure and pathologic alterations; insulin, its properties, assay, synthesis, release or degradation; the direct and indirect effects of insulin on target organs; blood glucose level, hyper- and hypo-glycemia; insulin antibodies and insulin resistance; insulin allergy; recent developments in intermediary metabolism; experimental and clinical aspects of diabetes, signs, symptoms, diagnosis, treatment, complications, and associated condi-

tions. Also included are other hormones and agents whose effects are similar, opposite, synergistic or antagonistic to insulin, either in their primary or secondary effects on target organs. It should be noted that there are undoubtedly some omissions due to the empirical definition of the diabetes-related literature which was adopted and also to the difficulties attendant in preparing such a large-scale bibliography by machine.

The *Diabetes Literature Index* is published in three formats: a hierarchical subject index, a key word in title index, and an author index. The magnetic tape version of these indexes, prepared at the University of Minnesota, is used to generate the copy for offset printing by the Government Printing Office on their Linotron.

*Hierarchical Subject Index:* This index differs from *Index Medicus* in that related terms are grouped together in a hierarchical relationship. Thus, all citations which are indexed under blood sugar, glucose tolerance, hyperglycemia, hypoglycemia, and glycosuria are grouped under the general heading "blood sugar, urine sugar and related topics." In both the Diabetes Key Word Index and in *Index Medicus* these terms are arranged alphabetically, and the corresponding citations are distributed at many different page locations. In some instances where only a few citations appear under several similar subject headings, these are grouped together under a more generic term; at times, a new non-MEDLARS index term is created to cover these groupings of subject headings. In some instances where many citations appear under a single subject heading, these are subdivided by using subheadings.

Although the hierarchical subject index is, in a sense, a miniaturized version of *Index Medicus* (dealing with the core diabetes literature) it provides a much greater depth of indexing. Many relevant citations included in the *Diabetes Literature Index* do not appear under the corresponding subject headings in *Index Medicus*; because of space limitations, only two or three of the ten or more index terms included on the MEDLARS magnetic tape are used in the printed version of *Index Medicus*. At times the reason why a given citation appears under a specific subject heading may not be apparent from the article title. However, examination of the list of index terms for this citation (included in the Author Index under

the principal author) will give the basis for this inclusion.

Beginning with the January 1971 issue, two sections are included in the Hierarchical Subject Index. In *Section 1*, "Diabetes Mellitus and Related Topics," the major subdivisions include the MEDLARS terms: Islets of Langerhans, Pancreas, Insulin, Glucagon, Blood and Urine Sugar; the subsection on "Diabetes," (Section 1.F) is extensively subdivided and many subheadings are used. In *Section 2*, "Endocrinology" is divided into subsections dealing with the individual endocrine glands. Hierarchical subject indexes related to Biochemistry and the organ systems (included in the experimental issues, published in February and March, 1969) are not included at this time; terms related to these subjects are, however, included in the Keyword Index.

A list of the subject headings included in the tree structure of the hierarchy (with their corresponding index numbers) and an alphabetic cross index of these subject headings is printed immediately preceding the Hierarchical Subject Index.

**Key Word Index:** For all of the diabetes-related literature chosen, key words in the title are identified by the computer and an expanded magnetic tape is prepared, listing the complete bibliographic citation under each key word. Most editorial decisions are made by the computer-disk-look-up-program using a master list of terms. Trivial words are deleted and specific word combinations are also selected. Abbreviations and word variant forms are replaced by the more commonly used key word. Inconsistencies between the British and American spellings are eliminated. In no case, however, is a change made within the title itself. Words which have not ap-

peared previously in the system are identified by the computer program and flagged for human decision.

With the publication of the hierarchical subject index, the key word index has been shortened. Diabetes is not included as a term in the key word index as it is covered in great detail in the hierarchical subject index. Although users may find the hierarchical subject index more useful for coverage of their broad interests, the key word index is advantageous in locating citations dealing with very specific terms—for example those relating to biochemistry or the organ systems. The key word index is of special value in locating citations dealing with the frontiers of diabetes research, for new terms appearing in the title are immediately included in the key word index.

**Author Index:** Because of space limitations, the printed version of *Index Medicus* excludes all but the first three authors in multiple author publications. However since the last author is often the best known, this name may be the most useful for reference or retrieval; therefore, all authors are included in the Diabetes Literature Author Index. These are automatically identified by the computer program and an alphabetized magnetic tape is prepared in which the complete bibliographic citation is included under each author. In addition, all of the index terms used by the NLM for each citation are listed under the principal author, thus providing an overview of the subject content of the article.

Users planning to systematically cover all articles appearing in a given month may do so by scanning the author index, limiting their perusal to the principal author, i.e., those citations which contain the MEDLARS index terms.

# Arrangement of the Hierarchical Index

1	SECTION 1. DIABETES MELLITUS AND RELATED TOPICS	1.E.3.5	HYPERGLYCEMIA, DRUG THERAPY
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1.A.5	ISLANDS OF LANGERHANS, PATHOLOGY RELATED	1.E.4.1	GLYCOSURIA, CHEMICALLY INDUCED
1.B	PANCREAS	1.E.4.2	GLYCOSURIA, COMPLICATIONS
1.B.1	PANCREAS, ANATOMY RELATED	1.E.4.3	GLYCOSURIA, DIAGNOSIS
1.B.2	PANCREAS, BIOCHEMISTRY RELATED	1.E.4.4	GLYCOSURIA, DRUG THERAPY
1.B.3	PANCREAS, PHYSIOLOGY RELATED	1.E.4.5	GLYCOSURIA, ENZYMOLOGY
1.B.4	PANCREAS, PHARMACOLOGY RELATED	1.E.4.6	GLYCOSURIA, ETIOLOGY
1.B.5	PANCREAS, PATHOLOGY RELATED	1.E.4.7	GLYCOSURIA, METABOLISM
1.B.6	PANCREAS, SURGERY RELATED	1.E.4.8	GLYCOSURIA, OCCURRENCE
1.B.6.1	PANCREAS, TRANSPLANTATION	1.E.5	GLYCOSURIA, RENAL
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ADRENOGENITAL SYNDROME  
  
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ALLOXAN DIABETES  
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DRUG THERAPY  
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AMNIOCENTESIS  
ANABOLIC STEROIDS  
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ANDROSTERONE  
  
ANTI-DIABETICS  
APGAR SCORE  
ARTERIOSCLEROSIS  
BETAMETHASONE  
BIGUANIDES  
BLOOD SUGAR  
ANALYSIS  
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METABOLISM  
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CALCITONIN  
CARBUTAMIDE  
CHLORMADINONE  
CHLORTRIANISENE  
CHLORPROPAMIDE  
CHOLECYSTOKININ  
CHOLESTEROL, DIETARY  
CHROMAFFIN SYSTEM  
CONTRACEPTIVES, ORAL  
CORONARY DISEASE  
CORPUS LUTEUM  
CORPUS LUTEUM HORMONES  
CORTICOSTERONE  
CORTICOTROPIN  
CORTICOTROPIN RELEASING HORMONE  
CORTISONE  
CRETINISM  
CUSHINGS SYNDROME  
CYCLAMATES  
CYTOCHALASIN B  
CYTOCHALASINS  
DEHYDROEPIANDROSTERONE  
  
DESOXYCORTICOSTERONE  
DEXAMETHASONE  
DIABETES INSIPIDUS  
DIABETES MELLITUS  
BLOOD  
CHEMICALLY INDUCED  
COMPLICATIONS  
CONGENITAL  
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DRUG THERAPY  
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PREVENTION & CONTROL  
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- GLIBENCLAMIDE
- GLUCAGON
  - ADMINISTRATION & DOSAGE
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  - DIAGNOSTIC USE
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# 1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

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## 1.F.8.2 DIABETES, DIAGNOSIS

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## 1.F.9.2.7 CYCLAMATES

## 1.F.9.2.8 SACCHARIN

## 1.F.9.3 DIABETES, INSULIN AND THERAPY

### 1.F.9.3.1 INSULIN, ADMINISTRATION AND DOSAGE

NORMALIZATION OF PLASMA GLUCOSE OF UNSTABLE DIABETES: STUDIES UNDER AMBULATORY, FED CONDITIONS WITH PUMPED INTRAVENOUS INSULIN. Service FJ *J Lab Clin Med* 91: 480-9, Mar 78 (Eng) DL/78JUN234

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- THE PURIFICATION AND CHARACTERIZATION OF A LIPOLYTIC FACTOR FROM BOVINE PITUITARIES** Assa S, Laron Z *Horm Metab Res* 9: 294-9, Jul 77 (Eng) \*DL/78JUN43
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#### 2.F.3.3.1 CORPUS LUTEUM HORMONES

#### 2.F.3.3.2 PROGESTATIONAL HORMONES

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## OVERLOAD

### OXIDASE

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CA<sup>2+</sup> REQUIREMENT IN ATP-INDUCED ACTIVATION OF UNCOUPLED OXIDATION OF SUCCINATE IN ISOLATED RAT-LIVER MITOCHONDRIA. Ezawa I, Ogata E *Eur J Biochem* 77: 427-35, 1 Aug 77 (Eng) \*DL/78JUN23

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[EFFECT OF ASCORBIC ACID AND OAT POLYPHENOLS ON RESPIRATION AND OXIDATIVE PHOSPHORYLATION IN LIVER MITOCHONDRIA IN ALLOXAN DIABETIC RATS] Shamrai EF, Stroeveia LN, Beletskaia TA *Ukr Biokhim Zh* 50: 50-2, Jan-Feb 78 (Rus) DL/78JUN353

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[EFFECT OF GLUCOSE-1-PHOSPHATE ON THE INSULIN SECRETION OF THE ISOLATED AND PERFUSED RAT PANCREAS] Butturini U, Pezzarossa A, Banchini E, Coscelli C *Boll Soc Ital Biol Sper* 53: 1742-8, 30 Oct 77 (Ita) DL/78JUN93

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CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS, JUVENILE (diagnosis, drug therapy, prevention & control); ENGLISH ABSTRACT; GLUCOSE TOLERANCE TEST (methods); HUMAN; INSULIN (therapeutic use); TIME FACTORS.

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ANIMAL; APOLIPOPROTEINS (blood); DIABETES MELLITUS, EXPERIMENTAL (metabolism); LIPOPROTEINS, HDL (blood, metabolism); MALE; RATS.

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(complications); MESTRANOL (adverse effects); MYOCARDIAL INFARCT (chemically induced).

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ABDOMEN; ACIDOSIS (chemically induced, complications); ANIONS; CASE REPORT; DIABETES MELLITUS (drug therapy); HUMAN; LACTATES; MALE; MIDDLE AGE; PAIN (etiology); PHENFORMIN (adverse effects, therapeutic use).

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ANIMAL; CALCIUM (analysis); FREEZE DRYING; ISLANDS OF LANGERHANS (analysis); MICE; MICROCHEMISTRY; SPECTROPHOTOMETRY, ATOMIC ABSORPTION.

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AGE FACTORS; ANIMAL; BLOOD SUGAR (analysis); BODY WEIGHT; DIABETES MELLITUS (familial & genetic, physiopathology); FEMALE; INSULIN (blood, secretion); ISLANDS OF LANGERHANS (metabolism); MALE; MICE; MICE, INBRED C57BL; PANCREAS (physiology); PERFUSION; RADIOIMMUNOASSAY.

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ALCOHOL OXIDOREDUCTASES (metabolism); ANIMAL; COENZYME A (metabolism); ETHYLMALIMIDE (pharmacodynamics); FATTY ACIDS (metabolism); FATTY ACIDS, UNSATURATED (metabolism); HYDROLYASES (metabolism); KINETICS; MALE; MALONATES (metabolism); MICROSOMES, LIVER (metabolism); OXIDOREDUCTASES (metabolism); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. )

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DIHYDROERGOCRISTINE (pharmacodynamics); DIHYDROERGOTOXINE (pharmacodynamics); FEMALE; HUMAN; INSULIN (secretion); MALE; TOLBUTAMIDE (pharmacodynamics).

[EFFECT OF CYPROHEPTADINE TREATMENT ON HUMAN GLUCAGON-INDUCED INSULIN SECRETION] Balestrieri R, Bertolini S, Castello C, Schiaffino GL, Barban G, Fontana L, Fattorini A *Boll Soc Ital Biol Sper* 53: 1846-52, 15 Nov 77 (Ita) DL/78JUN95

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ANTIGENS, BACTERIAL (isolation & purification, urine); CROSS REACTIONS; DIABETIC NEPHROPATHIES (immunology); GLOMERULONEPHRITIS (etiology, immunology); HUMAN; MOLECULAR WEIGHT; STREPTOCOCCAL INFECTIONS (complications); STREPTOCOCCUS PYOGENES

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RELEASE OF GROWTH HORMONE IN LACTATING AND NON-LACTATING GOATS IN RELATION TO BEHAVIOUR, STAGES OF SLEEP, ELECTROENCEPHALOGRAMS, ENVIRONMENTAL STIMULI AND LEVELS OF PROLACTIN, INSULIN, GLUCOSE AND FREE FATTY ACIDS IN THE CIRCULATION. Tindal JS, Knaggs GS, Hart IC, Blake LA *J Endocrinol* 76: 333-46, Feb 78 (Eng) DL/78JUN237

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REGULATION BY LIPIDS OF COFACTOR BINDING TO A PERIPHERAL MEMBRANE ENZYME: BINDING OF THIAMIN PYROPHOSPHATE TO PYRUVATE OXIDASE. OBrien TA, Blake R 2d, Gennis RB *Biochemistry* 16: 3105-9, 12 Jul 77 (Eng) \*DL/78JUN2

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PHYSICAL CHARACTERISTICS OF INSULIN RECEPTORS ON RENAL CELL MEMBRANES. Blanchard RF, Davis PJ, Blas SD *Diabetes* 27: 88-95, Feb 78 (Eng) DL/78JUN168

ANIMAL; BINDING, COMPETITIVE; CELL MEMBRANE (metabolism); COMPARATIVE STUDY; DOGS; KIDNEY CORTEX (metabolism); KINETICS; LIVER (metabolism); PROINSULIN (metabolism); RECEPTORS, INSULIN (metabolism); U.S. GOVT SUPPORTED, N.I.H. ).

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LACK OF INFLUENCE OF ANTIBIOTIC THERAPY ON CONCENTRATIONS OF GLUCOSE AND INORGANIC ELEMENTS IN SALIVA [LETTER] Kernbaum SK, Blayo MC *J Infect Dis* 136: 321-3, Aug 77 (Eng) \*DL/78JUN60

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EFFECTS OF PHOSPHATIDYLCHOLINE LIPOSOMES ON THE FATTY ACID SYNTHETASE COMPLEX FROM MYCOBACTERIUM SMEGMATIS. Odriozola JM, Bloch K *Biochim Biophys Acta* 488: 198-206, 24 Aug 77 (Eng) \*DL/78JUN9

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ABNORMALITIES IN THE REGULATION OF GROWTH HORMONE IN CHRONIC RENAL FAILURE. Ramirez G, O'Neill WM, Bloomer HA, Jubiz W *Arch Intern Med* 138: 267-71, Feb 78 (Eng) DL/78JUN465

### Bluet-Pajot MT

EFFECTS OF INHIBITORS OF CATECHOLAMINE SYNTHESIS AND CATECHOLAMINE AGONISTS ON MORPHINE- AND HYPOGLYCAEMIA-INDUCED RELEASE OF GROWTH HORMONE IN THE RAT. Bluet-Pajot MT, Schaub C *J Endocrinol* 76: 365-6, Feb 78 (Eng) DL/78JUN238

ANIMAL; BLOOD SUGAR (metabolism); CATECHOLAMINES (biosynthesis); CLONIDINE (pharmacodynamics); INSULIN (pharmacodynamics); METHYLTYSOSINES (pharmacodynamics); MORPHINE (pharmacodynamics); RATS; SECRETORY RATE (drug effects); SOMATOTROPIN (blood, secretion).

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HIGH DENSITY LIPOPROTEIN METABOLISM IN MAN. Blum CB, Levy RI, Eisenberg S, Hall M 3d, Goebel RH, Berman M *J Clin Invest* 60: 795-807, Oct 77 (Eng) \*DL/78JUN58

ADOLESCENCE; ADULT; APOLIPOPROTEINS (metabolism); CHOLESTEROL (blood); DIETARY CARBOHYDRATES (metabolism); FEMALE; HUMAN; KINETICS; LIPOPROTEINS, HDL (blood, metabolism, urine); MALE; METABOLIC CLEARANCE RATE; MODELS, BIOLOGICAL; NICOTINIC ACIDS (pharmacodynamics); PHOSPHOLIPIDS (blood).

### Blumenthal R

DIFFUSION AND PATCHING OF MACROMOLECULES ON PLANAR LIPID BILAYER MEMBRANES. Wolf DE, Schlessinger J, Elson EL, Webb WW, Blumenthal R, Henkart P *Biochemistry* 16: 3476-83, 26 Jul 77 (Eng) \*DL/78JUN4

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INSULIN-LIKE GROWTH FACTOR: A MODEL FOR TERTIARY STRUCTURE ACCOUNTING FOR IMMUNOREACTIVITY AND RECEPTOR BINDING. Blundell TL, Bedarkar S, Rinderknecht E, Humbel RE *Proc Natl Acad Sci USA* 75: 180-4, Jan 78 (Eng) DL/78JUN325

AMINO ACID SEQUENCE; CROSS REACTIONS; GROWTH SUBSTANCES (immunology, metabolism); INSULIN (immunology, metabolism); NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY (immunology, metabolism); PROTEIN CONFORMATION; RECEPTORS, INSULIN (metabolism).

INSULIN POLYMORPHISM: SOME PHYSICAL AND BIOLOGICAL PROPERTIES OF RAT INSULINS. Wood SP, Tickle LJ, Blundell TL, Wollmer A, Steiner DF *Arch Biochem Biophys* 186: 175-83, Feb 78 (Eng) DL/78JUN459

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DERMATOGLYPHICS IN DIABETES MELLITUS) Bodnar PN, Bortnichuk SI *Vrach Delo* 78-9, Dec 77 (Rus) DL/78JUN366

DERMATOGLYPHICS; DIABETES MELLITUS; HUMAN.

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GALACTOSE-1-PHOSPHATE ACCUMULATION BY A DUARTE-TRANSFERASE DEFICIENCY DOUBLE HETEROZYGOSE. Wharton CH, Berry HK, Bofinger MK *Clin Genet* 13: 171-5, Feb 78 (Eng) DL/78JUN134

CIENCY DOUBLE HETEROZYGOSE. Wharton CH, Berry HK, Bofinger MK *Clin Genet* 13: 171-5, Feb 78 (Eng) DL/78JUN134

### Böhme U

[THE PREVENTIVE TREATMENT OF GENERAL RISKS PRIOR TO GYNAECOLOGICAL OPERATIONS (AUTHORS TRANSL.)] Börner P, Böhme U, Werle KP, Zimmermann P *Geburtshilfe Frauenheilkd* 38: 1-10, Jan 78 (Ger) DL/78JUN183

### Bolognesi F

[DIAZOXIDE IN THE TREATMENT OF OBESITY] Marugo M, Giusti M, Cocco R, Bolognesi F, Reitano A *Boll Soc Ital Biol Sper* 53: 1860-6, 15 Nov 77 (Ita) DL/78JUN96

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DIABETES MELLITUS IN KEARNS-SAYRE SYNDROME [LETTER] Boltshauser E, Gauthier G *Am J Dis Child* 132: 321-2, Mar 78 (Eng) DL/78JUN423

ADOLESCENCE; ADULT; DIABETES MELLITUS; FEMALE; HEART BLOCK; HUMAN; MALE; OCULOMOTOR PARALYSIS; RETINITIS PIGMENTOSA; SYNDROME.

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[TOPOGRAPHIC STUDY OF LIPID EXUDATES IN DIABETIC PATIENTS AND THERAPEUTIC CONSIDERATIONS] Grange JD, Bonnet M, Pingault C *Bull Soc Ophthalmol Fr* 77: 275-7, Mar 77 (Fre) DL/78JUN127

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[EFFECT OF PROPRANOLOL ON INSULIN-INDUCED GASTRIC ACID SECRETION. IMPROVEMENT OF THE DISCRIMINATIVE VALUE OF THE HOLLANDER TEST (AUTHORS TRANSL.)] Fournet J, Hostein J, Fouque B, Serre F, Gavend M, Bonnet-Eymard J *Gastroenterol Clin Biol* 1: 995-1006, 1977 (Fre) DL/78JUN182

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THE EFFECT OF DIETARY CHOLESTEROL ON RAT LIVER MICROSOMAL 3-HYDROXY-3-METHYLGLUTARYL-COENZYME A REDUCTASE ACTIVITY. Baqir YA, Booth R *Biochem Soc Trans* 5: 294, 1977 (Eng) \*DL/78JUN40

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[TREATMENT OF OBESITY BY THE METHOD OF INTERMITTENT ADMINISTRATION OF THYROIDINE AND INSULIN] Boriak PM, Cherkas V *Vrach Delo* 103-4, Jan 78 (Rus) DL/78JUN363

DRUG THERAPY, COMBINATION; INSULIN (administration & dosage, therapeutic use); OBESITY (drug therapy); THYROID HORMONES (administration & dosage, therapeutic use).

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[THE PREVENTIVE TREATMENT OF GENERAL RISKS PRIOR TO GYNAECOLOGICAL OPERATIONS (AUTHORS TRANSL.)] Börner P, Böhme U, Werle KP, Zimmermann P *Geburtshilfe Frauenheilkd* 38: 1-10, Jan 78 (Ger) DL/78JUN183

AGE FACTORS; AGED; DIABETES MELLITUS (complications); ENGLISH ABSTRACT; FEMALE; GYNECOLOGIC DISEASES (surgery); HEART DISEASES (complications); HUMAN; HYPERTENSION (complications); MIDDLE AGE; OBESITY (complications); POSTOPERATIVE COMPLICATIONS

(prevention & control); PREOPERATIVE CARE; RESPIRATORY TRACT DISEASES (complications); RISK.

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[KIDNEY SIZE IN DIABETIC CHILDREN IN THE EARLY STAGES OF THE DISEASE] Madacy L, Kiss S, Borsodi A *Orv Hetil* 119: 317-20, 5 Feb 78 (Hun) DL/78JUN311

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[DERMATOGLYPHICS IN DIABETES MELLITUS] Bodnar PN, Bortnichuk SI *Vrach Delo* 78-9, Dec 77 (Rus) DL/78JUN366

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[COMPARATIVE STUDY OF VARIOUS GROWTH-HORMONE-SECRETION STIMULATION TESTS IN SHORT PATIENTS] Rodriguez Doreste OL, Cardenal del Valle C, Bosch Millares C *Rev Clin Esp* 147: 511-4, 15 Dec 77 (Spa) DL/78JUN335

# Boscherini B

INSULIN SECRETION IN CHILDREN WITH GROWTH RETARDATION. Boscherini B, Finocchi G, Lostia O, Mancuso G, Montani P, Pasquino AM, Rezza E, Rocchio J, Taggi F, Zorretta D *Eur J Pediatr* 127: 21-6, 30 Dec 77 (Eng) DL/78JUN145

CHILD; CHILD, PRESCHOOL; DWARFISM (etiology); FEMALE; GROWTH DISORDERS (metabolism); HUMAN; INSULIN (secretion); MALE; SECRETORY RATE; SOMATOTROPIN (deficiency); TOLBUTAMIDE (pharmacodynamics).

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THE EFFECT OF SOMATOSTATIN ON EPINEPHRINE-INDUCED FREE FATTY ACID RELEASE IN NORMAL MAN. Botha JL, Vinik AI, Child P, Lund A, van Tonder S *S Afr Med J* 52: 995-7, 10 Dec 77 (Eng) DL/78JUN348

ADULT; BLOOD SUGAR (analysis); EPINEPHRINE (pharmacodynamics); FATTY ACIDS, NONESTERIFIED (blood); GLUCAGON (blood); HUMAN; INSULIN (blood); MALE; MIDDLE AGE; SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); STIMULATION, CHEMICAL.

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[EFFECTS OF THE BETA-ADRENERGIC BLOCKING AGENT PROPRANOLOL ON THE CARBOHYDRATE- AND LIPOMETABOLISM (AUTHORS TRANS)] Zilker T, Bottermann P *Med Klin* 73: 250-3, 17 Feb 78 (Ger) DL/78JUN290

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METABOLIC AND CARDIOVASCULAR RESPONSES TO NOREPINEPHRINE IN TRAINED AND NONTRAINED HUMAN SUBJECTS. LeBlanc J, Boulay M, Dulac S, Jobin M, Labrie A, Rousseau-Migneron S *J Appl Physiol* 42: 166-73, Feb 77 (Eng) DL/78JUN204

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FRANK N. ALLAN: 1899-1977. Boyd DP *Diabetes* 27: 135-6, Feb 78 (Eng) DL/78JUN164

CURRENT BIOG-OBIT; DIABETES MELLITUS; HISTORY OF MEDICINE, 20TH CENT.; HUMAN; UNITED STATES.

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[CONTINUOUS INTRAVENOUS INFUSION OF SMALL DOSES OF INSULIN IN THE TREATMENT OF DIABETIC COMA] Pelosi RM, Dias CS, Rosenberg FE, Rodrigues HF, Alves E, Branco NL, Reis LC *AMB* 23: 361-4, Oct 77 (Por) DL/78JUN332

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[BEHAVIOR OF GLYCEMIA, IMMUNOREACTIVE INSULIN, SOMATOTROPIN AND GASTRIN AFTER ADMINISTRATION OF A HYPERPROTEINIC FOOD IN PATIENTS WITH LIVER CIRRHOSIS] Gragnoli G, Postorino G, Martinelli G, Tanganelli I, Brandi L *Boll Soc Ital Biol Sper* 53: 1735-41, 30 Oct 77 (Ita) DL/78JUN92

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THE EFFECT OF GASTROGRAFIN AND GLUCAGON ON CT SCANNING OF THE PANCREAS: A BLIND CLINICAL TRIAL. Moss AA, Kressel HY, Korobkin M, Goldberg HI, Rohlfing BM, Brasch RC *Radiology* 126: 711-4, Mar 78 (Eng) DL/78JUN331

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AN ENZYMIC DEFECT IN THE OBESE (OB/OB) MOUSE: LOSS OF THYROID-INDUCED SODIUM- AND POTASSIUM-DEPENDENT ADENOSINETRIPHOSPHATASE. York DA, Bray GA, Yukimura Y *Proc Natl Acad Sci USA* 75: 477-81, Jan 78 (Eng) DL/78JUN326

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ANIMAL; BLOOD SUGAR (analysis); BODY WEIGHT (drug effects); DIABETES MELLITUS, EXPERIMENTAL (drug therapy); DIURESIS (drug effects); DRUG SCREENING; ENGLISH ABSTRACT; GLYCOSURIA (urine); INSULIN (therapeutic use); ISLANDS OF LANGERHANS (drug effects); MALE; RATS; RNA (therapeutic use); TIME FACTORS; YEAST, DRIED.

# Bressot N

[BIOLOGICAL AND HORMONAL BALANCE DURING ORAL NUTRITION, EXCLUSIVE PERENTERAL AND MIXED NUTRITION IN CHILDREN] Duffour G, Srougi G, Bressot N, Alquier J, Castel J, Jean R *Ann Anesthesiol Fr* 18: 1063-70, 1977 (Fre) DL/78JUN448

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ADENINE (pharmacodynamics); ADENOSINE TRIPHOSPHATE (blood); ANIMAL;

DIHYDROXYACETONE (pharmacodynamics); DIHYDROPHOSPHOGLYCERIC ACIDS (blood); DOGS; ERYTHROCYTES (drug effects, metabolism); OXYGEN (blood); PHOSPHATES (pharmacodynamics); PYRUVATES (pharmacodynamics); TRIOSSES (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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[ACTIVITIES OF CERTAIN ENZYMES OF THE ENERGETIC METABOLISM OF BONE MUSCLE; THE EFFECT OF SHORT-TERM GLUCAGON INFUSION (AUTHORS TRANSL)] Andel M, Brodan V, Vondra K, Bass A, Teisinger J *Cas Lek Cesk* 116: 1542-5, 16 Dec 77 (Cze) DL/78JUN123

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GASTRIC INHIBITORY POLYPEPTIDE (GIP) AND INSULIN IN OBESITY: INCREASED RESPONSE TO STIMULATION AND DEFECTIVE FEEDBACK CONTROL OF SERUM LEVELS. Creutzfeldt W, Ebert R, Wilms B, Frerichs H, Brown JC *Diabetologia* 14: 15-24, 14 Jan 78 (Eng) DL/78JUN173

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BOMBESIN AFFECTS THE CENTRAL NERVOUS SYSTEM TO PRODUCE HYPERGLYCEMIA IN RATS. Brown MR, Rivier J, Vale WW *Life Sci* 21: 1729-34, 15 Dec 77 (Eng) DL/78JUN277

ANIMAL; BLOOD SUGAR (metabolism); BODY TEMPERATURE (drug effects); BOMBESIN (pharmacodynamics); CENTRAL NERVOUS SYSTEM (drug effects, physiology); GLUCAGON (blood); HYPERGLYCEMIA (chemically induced); INSULIN (blood); MALE; PEPTIDES (pharmacodynamics); RATS; STRUCTURE-ACTIVITY RELATIONSHIP; U.S. GOVT SUPPORTED, N.I.H.).

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EFFECTS OF HORMONES ON THE SYNTHESIS OF ALPHA 1 (ACUTE-PHASE) GLYCOPROTEIN IN ISOLATED RAT HEPATOCYTES. Jeejeebhoy KN, Ho J, Mehra R, Jeejeebhoy J, Bruce-Robertson A *Biochem J* 168: 347-52, 15 Dec 77 (Eng) DL/78JUN478

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A RAPID METHOD FOR THE DETERMINATION OF GLYCOSYLATED HEMOGLOBINS USING HIGH PRESSURE LIQUID CHROMATOGRAPHY. Cole RA, Soeldner JS, Dunn PJ, Bunn HF *Metabolism* 27: 289-301, Mar 78 (Eng) DL/78JUN282

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CATARACTS INDUCED BY TOPICAL DEXAMETHASONE IN DIABETICS. Yablonski ME, Burde RM, Kolker AE, Becker B *Arch*

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### Burghart-Czaplinska M

*Ophthalmol* 96: 474-6, Mar 78 (Eng)  
DL/78JUN476

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[CLINICAL IMPORTANCE OF THE HL-A SYSTEM] Burghart-Czaplinska M *Pol Tyg Lek* 32: 2067-9, 26 Dec 77 (Pol) DL/78JUN318  
BONE MARROW (transplantation); DIABETES MELLITUS (immunology); GRAFT VS HOST REACTION; HUMAN; HL-A ANTIGENS; LEPROSY (immunology); PSORIASIS (immunology); TRANSPLANTATION IMMUNOLOGY (transplantation); TRANSPLANTATION, HOMOLOGOUS (transplantation).

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ANIMAL; ANTILYMPHOCYTE SERUM (pharmacodynamics); DIABETES MELLITUS, EXPERIMENTAL (immunology); MALE; MICE; MICE, INBRED BALB C; MICE, NUDE; PASSIVE TRANSFER; SPLEEN (cytology, transplantation); T-LYMPHOCYTES (immunology); TRANSPLANTATION, ALLOGENEIC (transplantation); TRANSPLANTATION, ISOGENEIC (transplantation).

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[EFFECT OF GLUCOSE-1-PHOSPHATE ON THE INSULIN SECRETION OF THE ISOLATED AND PERFUSED RAT PANCREAS] Butturini U, Pezzarossa A, Banchini E, Coscelli C *Boll Soc Ital Biol Sper* 53: 1742-8, 30 Oct 77 (Ita) DL/78JUN93  
ANIMAL; GLUCOSEPHOSPHATES (pharmacodynamics); INSULIN (secretion); MALE; PANCREAS (drug effects, secretion); RATS.

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HYPOPHYSO-GONADAL FUNCTION IN THE DIABETIC CHILD. Cicognani A, Zappulla F, Bernardi F, Capelli M, Mazzanti L, Turchi S, Radetti G, Pirazzoli P, Cacciari E *Acta Paediatr Scand* 67: 151-5, Mar 78 (Eng) DL/78JUN408

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THE EFFECTS OF TOXIC AND NON-TOXIC SERUM PHENYTOIN LEVELS ON CARBOHYDRATE TOLERANCE AND INSULIN LEVELS. Callaghan N, Feely M, O'Callaghan M, Duggan B, McGarry J, Cramer B, Wheelan J, Seldrup J *Acta Neurol Scand* 56: 563-71, Dec 77 (Eng) DL/78JUN402  
ADOLESCENCE; ADULT; AGED; BLOOD SUGAR (analysis); CARBOHYDRATES (metabolism); CHILD; EPILEPSY (drug therapy); FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood); MALE; MIDDLE AGE; PHENYTOIN (adverse effects, blood, therapeutic use).

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A SPECIES DIFFERENCE IN NUCLEOSIDE PHOSPHORYLASE ACTIVITY AND INOSINE-STIMULATED INSULIN SECRETION IN ISOLATED ISLETS OF LANGERHANS. Campbell IL, Taylor KW *Biochem J* 168: 591-3, 15 Dec 77 (Eng) DL/78JUN482  
ANIMAL; COMPARATIVE STUDY; IN VITRO; INOSINE (pharmacodynamics); INSULIN (secretion); ISLANDS OF LANGERHANS (enzymology, metabolism); MALE; PENTOSYLTRANSFERASES (metabolism); PURINE NUCLEOSIDE PHOSPHORYLASES (metabolism); RABBITS; RATS.

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TREATMENT OF NORMAL-WEIGHT DIABETICS [LETTER] Clarke BF, Campbell IW *Br Med J* 1: 510, 25 Feb 78 (Eng) DL/78JUN118

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GLUCOSE RELEASE FROM LIPOSOMES CONTAINING GLANGLIOSIDES OR OTHER MEMBRANE LIPIDS INDUCED BY BIOGENIC AMINES AND MYELIN BASIC PROTEIN. Maggio B, Mestrallet MG, Cumar FA, Caputto R *Biochem Biophys Res Commun* 77: 1265-72, 22 Aug 77 (Eng) \*DL/78JUN88

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[COMPARATIVE STUDY OF VARIOUS GROWTH-HORMONE-SECRETION STIMULATION TESTS IN SHORT PATIENTS] Rodriguez Doreste OL, Cardenal del Valle C, Bosch Millares C *Rev Clin Esp* 147: 511-4, 15 Dec 77 (Spa) DL/78JUN335

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PURIFICATION OF THE ADIPOSE CELL PLASMA MEMBRANE IN OBESE (OB/OB) MICE. Carpentier JL, Perrelet A, Orci L *Lab Invest* 37: 260-4, Sep 77 (Eng) \*DL/78JUN68  
ADIPOSE TISSUE (ultrastructure); ANIMAL; CELL MEMBRANE (ultrastructure); COMPARATIVE STUDY; FREEZE FRACTURING; MICE; MICE, OBESE; OBESITY (pathology); RATS.

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PURIFICATION AND INITIAL RATE KINETICS OF ACYL-PHOSPHATE-HEXOSE PHOSPHOTRANSFERASE FROM AEROBACTER AEROGENES. Casazza JP, Fromm HJ *Biochemistry* 16: 3091-7, 12 Jul 77 (Eng) \*DL/78JUN1  
AEROBACTER (enzymology); ENTEROBACTERIACEAE (enzymology); GLUCOSE (metabolism); HEXOSEPHOSPHATES; KINETICS; MOLECULAR WEIGHT; PHOSPHATASES

(metabolism); PHOSPHOTRANSFERASES (isolation & purification, metabolism); STRUCTURE-ACTIVITY RELATIONSHIP; SUGAR PHOSPHATES (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. ).

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FAILURE OF SOMATOSTATIN TO DIAGNOSE ORGANIC HYPERINSULINISM. Cascio VL, Galvanini G, Adams S, Cinti S, Bianchi I, Cominacini L, Scuro LA *Clin Endocrinol (Oxf)* 8: 81-3, Jan 78 (Eng) DL/78JUN133  
ADULT; FEMALE; HUMAN; HYPERINSULINISM (diagnosis); INSULIN (secretion); MIDDLE AGE; SECRETORY RATE (drug effects); SOMATOTROPIN RELEASE INHIBITING HORMONE (diagnostic use, pharmacodynamics); TOLBUTAMIDE (diagnostic use).

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[THE DIABETIC FOOT] Casparie AF *Ned Tijdschr Geneesk* 122: 137-41, 4 Feb 78 (Dut) DL/78JUN300  
AGED; ARTERIOSCLEROSIS (complications); BURNS (complications, etiology); CASE REPORT; DIABETIC ANGIOPATHIES (complications); DIABETIC NEUROPATHIES (complications); FEMALE; FOOT DISEASES (etiology); HUMAN; LEG ULCER (etiology); MALE; MIDDLE AGE; WOUND INFECTION (etiology).

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ASTHMA (psychology); CHILD; CHILD, PRESCHOOL; COMPARATIVE STUDY; DIABETES MELLITUS, JUVENILE (psychology); FAMILY; HUMAN; INTELLIGENCE TESTS; NEUROSES (diagnosis); PSYCHOPHYSIOLOGIC DISORDERS (diagnosis); RHEUMATISM (psychology); SPORTS.

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GALACTOSE (diagnostic use); GLUCAGON (diagnostic use); GLUCOSE TOLERANCE TEST; GLUCOSEPHOSPHATASE DEFICIENCY (enzymology); GLUCOSEPHOSPHATASE (metabolism); GLUCOSYLTRANSFERASES (metabolism); GLYCOGEN DEBRANCHING ENZYME (metabolism); GLYCOGEN PHOSPHORYLASE (metabolism); HEXOSEDIPHOSPHATASE (metabolism); HUMAN; INFANT; KETOGLUTARIC ACIDS (urine); LIVER GLYCOGEN (metabolism); LIVER (enzymology); MALE.

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EFFECT OF FLUPHENAZINE ON PITUITARY FUNCTION IN MAN. Chalmers RJ, Bennie EH, Johnson RH *Clin Endocrinol (Oxf)* 8: 75-9, Jan 78 (Eng) DL/78JUN132

ADULT; ALCOHOLISM (blood); FLUPHENAZINE (diagnostic use); HUMAN; HYPOGLYCEMIA (blood); MALE; MIDDLE AGE; PROLACTIN (blood); SOMATOTROPIN (blood).

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ALPHA-GALACTOSIDASES (metabolism); ANIMAL; BETA-GALACTOSIDASES (metabolism); COMPARATIVE STUDY; DIABETES MELLITUS (enzymology, familial & genetic); GALACTOSIDASES (metabolism); HAMSTERS; HYDROGEN-ION CONCENTRATION (physiology); KIDNEY (enzymology); KINETICS; MALE; MOLECULAR WEIGHT; TISSUE DISTRIBUTION; TRITONS (pharmacodynamics).

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ACIDOSIS, DIABETIC (complications, drug therapy); CASE REPORT; FEMALE; HUMAN; MIDDLE AGE; RETINAL DETACHMENT (etiology); VITREOUS BODY (pathology).

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ADRENAL GLANDS (embryology); ANIMAL; FEMALE; FETUS (physiology); GESTATIONAL AGE; HOMEOSTASIS; HUMAN; HYPOTHALAMUS (physiology); ISLANDS OF LANGERHANS (physiology); KIDNEY (physiology); NUTRITION; PITUITARY GLAND (physiology); PLACENTA (physiology); PREGNANCY; REVIEW; THYROID GLAND (embryology).

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BRAIN DISEASES (drug therapy, etiology); CASE REPORT; FEMALE; GLYCINE (cerebrospinal fluid); HUMAN; HYPERGLYCEMIA (cerebrospinal fluid, complications); INFANT; STRYCHNINE (therapeutic use).

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ADULT; DUODENAL ULCER (metabolism); FEMALE; GASTRIC JUICE (secretion); GLUCOSE SOLUTION, HYPERTONIC (pharmacodynamics); GLUCOSE (pharmacodynamics); HUMAN; INSULIN (pharmacodynamics); JEJUNUM (drug effects, innervation, physiopathology); MALE; MIDDLE AGE; PENTAGASTRIN (pharmacodynamics); STIMULATION, CHEMICAL; VAGOTOMY.

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ADOLESCENCE; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS, JUVENILE (physiopathology); FSH (blood); GONADOTROPINS, CHORIONIC (diagnostic use); HUMAN; HYPOTHALAMO-HYPOPHYSEAL SYSTEM (physiopathology); LH (blood); LH-FSH RELEASING HORMONE (diagnostic use); MALE; TESTIS (physiopathology); TESTOSTERONE (blood).

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INSULIN (analogs & derivatives); IODINE RADIOISOTOPES; ISOTOPE LABELING (methods).

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ACUTE DISEASE; BICARBONATES (secretion); BLOOD SUGAR (analysis); CHOLECYSTOKININ (antagonists & inhibitors, pharmacodynamics); CHRONIC DISEASE; GLUCAGON (pharmacodynamics); HUMAN; PANCREAS (secretion); PANCREATIC JUICE (secretion); PANCREATITIS (physiopathology); SECRETIN (antagonists & inhibitors, pharmacodynamics); SECRETORY RATE (drug effects).

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BLINDNESS (complications); CASE REPORT; CHILD, PRESCHOOL; FEMALE; HUMAN;

HYPOGLYCEMIA (complications); HYPOPHYSECTOMY (complications); OPTIC DISK (abnormalities); SEPTUM PELLUCIDUM (abnormalities); SOMATOTROPIN (therapeutic use); SYNDROME.

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ACIDOSIS, DIABETIC (chemically induced); BODY WEIGHT; DIABETES MELLITUS (drug therapy); HUMAN; METFORMIN (administration & dosage, adverse effects, therapeutic use).

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ABNORMALITIES, DRUG-INDUCED (prevention & control); ANIMAL; EMBRYO (drug effects); ENGLISH ABSTRACT; FEMALE; GLUCOSE (antagonists & inhibitors, toxicity); INSULIN (pharmacodynamics, therapeutic use); METHODS; PREGNANCY; RABBITS; RECEPTORS, INSULIN (drug effects).

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ADOLESCENCE; ADULT; AGED; ALLIED HEALTH PERSONNEL; DIABETIC COMA (drug therapy); EMERGENCY HEALTH SERVICES; FEMALE; GLUCOSE (administration & dosage, therapeutic use); HUMAN; INJECTIONS, INTRAVENOUS; INSULIN (administration & dosage, therapeutic use); MALE; MIDDLE AGE.

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CHROMATOGRAPHY, HIGH SPEED LIQUID (methods); DIABETES MELLITUS (blood); HEMOGLOBIN A (analysis); HEMOGLOBINS (analysis); HUMAN; MICROCHEMISTRY; U.S. GOVT SUPPORTED, N.I.H. ).

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ACYLTRANSFERASES (metabolism); ANIMAL; CHICKENS; COENZYME A SYNTHETASES (metabolism); DIETHYLSTILBESTROL (pharmacodynamics); DIGLYCERIDES; FATTY ACIDS (biosynthesis); GLYCERIN (analogs & derivatives, biosynthesis, blood); GLYCEROLPHOSPHATE  
ACYLTRANSFERASE (metabolism); MICROSOMES, LIVER (enzymology); MODELS, BIOLOGICAL; PHOSPHOLIPIDS (biosynthesis); TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ADENOSINE DIPHOSPHATE (pharmacodynamics); ADULT; BLOOD COAGULATION FACTORS (metabolism); BLOOD PLATELETS (physiology); BLOOD SUGAR (metabolism); DIABETIC RETINOPATHY (blood); FACTOR VIII (metabolism); FIBRINOGEN (metabolism); HEMOGLOBIN A (metabolism); HEMOGLOBINS (metabolism); HUMAN; PLATELET AGGREGATION (drug effects); VON WILLEBRAND FACTOR (metabolism).

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ANIMAL; BLOOD SUGAR; DIABETES MELLITUS, EXPERIMENTAL (metabolism); EXERTION; GLUCOSEPHOSPHATASE (metabolism); GLYCOGEN SYNTHETASE (metabolism); GLYCOGEN (biosynthesis); HEART VENTRICLE; MALE; MYOCARDIUM (metabolism); RATS; U.S. GOVT SUPPORTED, N.I.H. ).

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ALPHA ADRENERGIC INVOLVEMENT IN HEART METABOLISM: EFFECTS ON ADENOSINE CYCLIC 3,5-MONOPHOSPHATE, ADENOSINE CYCLIC 3,5-MONOPHOSPHATE-DEPENDENT PROTEIN KINASE, GUANOSINE CYCLIC 3,5-MONOPHOSPHATE, AND GLUCOSE TRANSPORT. Keely SL, Corbin JD, Lincoln T *Mol Pharmacol* 13: 965-75, Sep 77 (Eng) \*DL/78JUN73

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THE EXTRAMURAL AND INTRAMURAL CORONARY ARTERIES IN JUVENILE DIABETES MELLITUS: ANALYSIS OF NINE NECROPSY PATIENTS AGED 19 TO 38 YEARS WITH ONSET OF DIABETES BEFORE AGE 15 YEARS. Cral FV Jr, Roberts WC *Am J Med* 64: 221-30, Feb 78 (Eng) DL/78JUN428

ADULT; CORONARY DISEASE (etiology, pathology); CORONARY VESSELS (pathology); DIABETES MELLITUS, JUVENILE (complications, pathology); DIABETIC ANGIOPATHIES (pathology); FEMALE; HUMAN; MALE; MYOCARDIUM (pathology).

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ADULT; AGED; DIABETIC RETINOPATHY (surgery); ENGLISH ABSTRACT; FEMALE; HUMAN; LASER COAGULATION; MALE; MIDDLE AGE; RETINAL DISEASES (surgery); RETINAL HEMORRHAGE (surgery); RETINAL VEIN; THROMBOSIS (surgery).

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ADENOSINE CYCLIC-3,5-MONOPHOSPHATE (blood); AUTOIMMUNE DISEASES; EVALUATION STUDIES; GLUCAGON (diagnostic use); HUMAN; THYROID DISEASES (diagnosis, metabolism); THYROID FUNCTION TESTS (standards); THYROID HORMONES (metabolism); THYROTROPIN RELEASING HORMONE (metabolism); THYROTROPIN (metabolism); THYROXINE (metabolism); TRIIODOTHYRONINE (metabolism).

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ADULT; BED REST; BLOOD SUGAR (metabolism); EXERCISE, ISOMETRIC; EXERTION; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood); MALE; PLASMA VOLUME; TIME FACTORS.

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[NEONATAL HYPOGLYCEMIA] Raivio K, Donner M, Autio S *Vopr Okhr Materin Det* 23: 53-7, Jan 78 (Rus) DL/78JUN360

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CLOFIBRATE (administration & dosage, therapeutic use); DIABETIC RETINOPATHY (drug therapy); ENGLISH ABSTRACT; EXUDATES AND TRANSUDATES (drug effects); HUMAN; TIME FACTORS.

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MANAGEMENT OF FETAL GROWTH RETARDATION. Beischer NA, Abell DA, Drew JH *Med J Aust* 2: 641-6, 5 Nov 77 (Eng) DL/78JUN287

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ADENOSINE CYCLIC-3,5-MONOPHOSPHATE (blood); ADULT; AGE FACTORS; AGED; COMPARATIVE STUDY; DIABETES MELLITUS (blood); FASTING; FEMALE; HUMAN; MALE; MIDDLE AGE; OBESITY IN DIABETES (blood); RADIOIMMUNOASSAY.

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[POTASSIUM AND SODIUM CONCENTRATIONS IN ERYTHROCYTES: NORMAL VALUES, METHODS OF DETERMINATION AND CLINICAL SIGNIFICANCE] Duda K, Przybyszowski A *Pol Przegl Chir* 49: 1289-95, Dec 77 (Pol) [35 ref.] DL/78JUN319

ADENOSINE TRIPHOSPHATASE (metabolism); BIOLOGICAL TRANSPORT, ACTIVE; DIABETES MELLITUS (blood); ERYTHROCYTES (analysis, enzymology); HUMAN; HYPERTHYROIDISM (blood); HYPOKALEMIA (blood); POTASSIUM (blood); REVIEW; SHOCK, CARDIOGENIC (blood); SODIUM (blood).

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[BIOLOGICAL AND HORMONAL BALANCE DURING ORAL NUTRITION, EXCLUSIVE PERENTERAL AND MIXED NUTRITION IN CHILDREN] Duffour G, Srougi G, Bressot N, Alquier J, Castel J, Jean R *Ann Anesthesiol Fr* 18: 1063-70, 1977 (Fre) DL/78JUN448

ADOLESCENCE; BLOOD SUGAR; CHILD NUTRITION; CHILD; CHILD, PRESCHOOL; ENGLISH ABSTRACT; FATTY ACIDS, NONESTERIFIED (blood); FEMALE; GLUCAGON (blood); HUMAN; HYDROCORTISONE (blood); INSULIN (blood); MALE; PARENTERAL FEEDING; PARENTERAL HYPERALIMENTATION; SOMATOTROPIN (blood).

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THE EFFECTS OF TOXIC AND NON-TOXIC SERUM PHENYTOIN LEVELS ON CARBOHYDRATE TOLERANCE AND INSULIN LEVELS. Callaghan N, Feely M, O'Callaghan M, Duggan B, McGarry J, Cramer B, Wheelan J, Seldrup J *Acta Neurol Scand* 56: 563-71, Dec 77 (Eng) DL/78JUN402

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ANIMAL; BLOOD SUGAR (metabolism); DOSE-RESPONSE RELATIONSHIP, DRUG; GLUCAGON (immunology, metabolism); IMMUNE SERUMS (pharmacodynamics); INSULIN (pharmacodynamics);

PANCREATECTOMY; RATS; SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); U.S. GOVT SUPPORTED, N.I.H. ).

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SOLUBLE IMMUNE COMPLEXES IN THE SERA OF NEWLY DIAGNOSED INSULIN-DEPENDENT DIABETICS AND IN TREATED DIABETICS. Irvine WJ, Al-Khateeb SF, Di Mario U, Feek CM, Gray RS, Edmond B, Duncan LJ *Clin Exp Immunol* 30: 16-21, Oct 77 (Eng) DL/78JUN135

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[CURRENT STATUS OF DIABETIC MICROANGIOPATHY] Mosora N, Hincu N, Dutu A *Rev Med Interna [Med Interna]* 29: 513-8, Nov-Dec 77 (Rum) DL/78JUN337

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[A MATHEMATICAL MODEL OF THE PYRUVATE OXIDATION IN LIVER MITOCHONDRIA. 1. REGULATION OF THE KREBS CYCLE BY ADENINE AND PYRIDINE NUCLEOTIDES] Dynnik VV, Temnov AV *Biochimia* 42: 1030-44, Jun 77 (Rus) \*DL/78JUN15  
ADENINE NUCLEOTIDES (physiology); ADENOSINE TRIPHOSPHATASE (metabolism); ALLOSTERIC REGULATION; ANIMAL; ENGLISH ABSTRACT; GUINEA PIGS; ISOCITRATE DEHYDROGENASE (metabolism); KREBS CYCLE (drug effects); MATHEMATICS; MITOCHONDRIA, LIVER (enzymology, metabolism); MODELS, BIOLOGICAL; NAD (physiology); NADH, NADPH OXIDOREDUCTASES (metabolism); OXIDATION-REDUCTION; PYRUVATES (metabolism).

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**SOMATOSTATIN—BOTH HORMONE AND NEUROTRANSMITTER** Luft R, Efendic S, Hokfelt T *Diabetologia* 14: 1-13, 14 Jan 78 (Eng) [108 ref.] DL/78JUN172

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**INSULIN RELEASE, INSULIN CONTENT, AND GLUCOSE UTILIZATION IN ISOLATED MOUSE ISLETS MAINTAINED IN TISSUE CULTURE.** Eff C *Acta Endocrinol (Kbh)* 87: 535-42, Mar 78 (Eng) DL/78JUN396  
**ANIMAL; CELLS, CULTURED; CULTURE MEDIA; GLUCOSE (metabolism, pharmacodynamics); INSULIN (metabolism, secretion); ISLANDS OF LANGERHANS (metabolism, secretion); MICE.**

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**[MECHANISM OF THE PYRAZOLID POTENTIATION OF THE HYPERGLYCEMIC EFFECT OF ADRENALINE]** Egorova EF, Liberman SS *Farmakol Toksikol* 41: 36-40, Jan-Feb 78 (Rus) DL/78JUN155  
**ADRENALECTOMY; ANIMAL; ANTIDEPRESSIVE AGENTS; DRUG SYNERGISM; ENGLISH ABSTRACT; ENZYME ACTIVATION (drug effects); EPINEPHRINE (pharmacodynamics); GLYCOGEN PHOSPHORYLASE (metabolism); HYDROCORTISONE (pharmacodynamics); HYPERGLYCEMIA (chemically induced); IMIPRAMINE (pharmacodynamics); INDOLES (pharmacodynamics); LIVER (enzymology); MALE; MYOCARDIUM (enzymology); PYRAZINES (pharmacodynamics); RATS; RECEPTORS, ADRENERGIC (drug effects).**

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**NOCTURNAL INTRAGASTRIC INFUSION OF GLUCOSE IN MANAGEMENT OF DEFECTIVE GLUCONEOGENESIS WITH HYPOGLYCEMIA.** Ehrlich RM, Robinson BH, Freedman MH, Howard NJ *Am J Dis Child* 132: 241-3, Mar 78 (Eng) DL/78JUN422  
**BODY WEIGHT (drug effects); CASE REPORT; CHILD; CHILD, PRESCHOOL; FEMALE; FOLLOW-UP STUDIES; GLUCONEOGENESIS (drug effects); GLUCOSE (administration & dosage, therapeutic use); GLYCOGENOSIS (complications, drug therapy, metabolism); HUMAN; HYPOGLYCEMIA (drug therapy, etiology); INTUBATION, GASTROINTESTINAL; MALE.**

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**[INSULIN SYNTHESIS BY FUSED ANIMAL CELLS IN SUSPENSION CULTURE]** Wacker A, Kaul S, Eichler AR *Naturwissenschaften* 65: 69-70, Jan 78 (Ger) DL/78JUN299

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**ADMINISTRATION, ORAL; ADULT; DIABETES MELLITUS (drug therapy); FEMALE; GLIPIZIDE (pharmacodynamics, therapeutic use); HUMAN; MALE; SULFONYLUREA COMPOUNDS (therapeutic use).**

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**CONSTITUTIONAL FACTORS AND THE LOCAL AND GENERAL RESPONSES TO INJURY.** Little RA, Stoner HB, Elebute EA *Injury* 9: 199-206, Feb 78 (Eng) DL/78JUN199

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**EFFECTS OF METARAMINOL, INSULIN AND TRASYLOL ON THE RESPONSES TO HAEMORRHAGE IN DOGS.** Saleh MA, Zaki OA, Kamel AM, Ghoneim KM, El-Damarawy NA *Afr J Med Sci* 5: 229-34, Sep 76 (Eng) DL/78JUN419

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**SERUM ENZYME CHANGES IN EXPERIMENTAL DIABETES BEFORE AND AFTER TREATMENT WITH SOME HYPOGLYCAEMIC DRUGS.** Awadallah R, El-Dessoukey EA *Z Ernahrungswiss* 16: 235-40, Dec 77 (Eng) DL/78JUN371

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**AMBULATORY CARE; DIABETES MELLITUS (diagnosis); HUMAN.**

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**GLUCOSE FRUCTOSE + CITRIC ACID IN AMNIOTIC FLUID OF DIABETIC WOMEN.** Emara SH, El-Hawary MF, Abdel-Karim HA *Indian J Exp Biol* 15: 947-9, Oct 77 (Eng) DL/78JUN197

**SERUM PROTEINS AND AMINO-ACID PATTERN IN ALLOXAN-DIABETIC RATS.** El-Hawary Z, El-Hawary MF, Morcus SR *Z Ernahrungswiss* 16: 223-6, Dec 77 (Eng) DL/78JUN369

**BLOOD GLUCOSE, GLUTATHIONE, AND TOTAL KETO-ACIDS LEVELS IN ALLOXAN-DIABETIC RATS.** El-Hawary Z, El-Hawary MF, Morcus SR *Z Ernahrungswiss* 16: 227-30, Dec 77 (Eng) DL/78JUN370

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**SERUM PROTEINS AND AMINO-ACID PATTERN IN ALLOXAN-DIABETIC RATS.** El-Ha-

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**ALPHA GLOBULINS (blood); AMINO ACIDS (blood); ANIMAL; BLOOD PROTEINS (metabolism); COMPARATIVE STUDY; DIABETES MELLITUS, EXPERIMENTAL (blood); RATS; SERUM ALBUMIN (metabolism).**

**BLOOD GLUCOSE, GLUTATHIONE, AND TOTAL KETO-ACIDS LEVELS IN ALLOXAN-DIABETIC RATS.** El-Hawary Z, El-Hawary MF, Morcus SR *Z Ernahrungswiss* 16: 227-30, Dec 77 (Eng) DL/78JUN370

**ANIMAL; BLOOD SUGAR (metabolism); DIABETES MELLITUS, EXPERIMENTAL (blood); GLUTATHIONE (blood); KETO ACIDS (blood); KINETICS; RATS.**

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**GLUCOSE INSULIN INFUSION AND OUABAIN TOXICITY.** Fahmy SH, Sharaf EM, Saad Y, el-Mikatti N, Guirgis ZI, el-Mallakh M, Abd-el-Wahed S *J Egypt Med Assoc* 60: 71-3, 1977 (Eng) DL/78JUN227

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**ADULT; AUTONOMIC NERVOUS SYSTEM; BLOOD PRESSURE; COMPARATIVE STUDY; DIABETIC NEUROPATHIES (physiopathology); FEMALE; HUMAN; MALE; MIDDLE AGE; NERVOUS SYSTEM DISEASES (physiopathology); POSTURE; PULSE.**

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**PROTEIN AND ENERGY SPARING OF GLUCOSE ADDED IN HYPOCALORIC AMOUNTS TO PERIPHERAL INFUSIONS OF AMINO ACIDS.** Elwyn DH, Gump FE, Lles M, Long CL, Kinney JM *Metabolism* 27: 325-31, Mar 78 (Eng) DL/78JUN284

**ADULT; AGED; AMINO ACIDS (metabolism); BLOOD SUGAR (metabolism); BLOOD UREA NITROGEN; CALORIC INTAKE; DIET; ENERGY METABOLISM; FEMALE; GLUCOSE (metabolism); HUMAN; INSULIN (blood); MALE; MIDDLE AGE; PARENTERAL FEEDING; PROTEINS (metabolism); U.S. GOVT SUPPORTED, N.I.H.; U.S. GOVT SUPPORTED, NON-N.I.H. ).**

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**GLUCOSE FRUCTOSE + CITRIC ACID IN AMNIOTIC FLUID OF DIABETIC WOMEN.** Emara SH, El-Hawary MF, Abdel-Karim HA *Indian J Exp Biol* 15: 947-9, Oct 77 (Eng) DL/78JUN197

**AMNIOTIC FLUID (analysis); CITRATES (analysis); FEMALE; FRUCTOSE (analysis); GLUCOSE (analysis); HUMAN; INFANT, NEWBORN; PREGNANCY IN DIABETES (metabolism); PREGNANCY.**

**Endo A**

**TIME-DEPENDENT, IRREVERSIBLE INHIBITION OF 3-HYDROXY-3-METHYLGLU-**

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QUANTITATIVE LAYER-BY-LAYER PERIMETRY. Enoch JM *Invest Ophthalmol Vis Sci* 17: 208-57, Mar 78 (Eng) DL/78JUN202  
ADENOMA (diagnosis); ADULT; AGED; ANGIOID STREAKS (diagnosis); CASE REPORT; DIABETIC RETINOPATHY (diagnosis); ELECTROPHYSIOLOGY; FEMALE; GLAUCOMA (diagnosis); HUMAN; MACULAR DEGENERATION (diagnosis); MALE; MIDDLE AGE; NERVOUS SYSTEM DISEASES (diagnosis); OPTIC NEURITIS (diagnosis); PERIMETRY (methods); PITUITARY NEOPLASMS (diagnosis); PSYCHOPHYSIOLOGY; RETINAL DISEASES (diagnosis); U.S. GOVT SUPPORTED, N.I.H. ; VISION (physiology); VISUAL PATHWAYS (physiology).

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[A CASE OF POLAND SYNDROME] Erhardt R, Fischer B, Kern I *Fortschr Med* 96: 453-4, 9 Mar 78 (Ger) DL/78JUN192  
ABNORMALITIES, MULTIPLE (diagnosis); ADULT; CASE REPORT; DIABETES MELLITUS (complications); ENGLISH ABSTRACT; FATTY LIVER (complications); HUMAN; HYPERTENSION (complications); INTELLIGENCE; MALE; OBESITY (complications); SYNDROME.

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[CHANGES OF CARBOHYDRATE METABOLISM IN CHRONIC RENAL FAILURE] Pena Yanez A, Cerezo Morales S, Escobar Jimenez F, Manjon Garcia M, Lopez Luque A, Mora Lara J *Rev Clin Esp* 147: 489-94, 15 Dec 77 (Spa) DL/78JUN334

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ADIPOSE TISSUE (cytology, metabolism); ANIMAL; CATTLE, COMPARATIVE STUDY; FATTY ACIDS (metabolism); GLYCERIDES (metabolism); GLYCERIN (metabolism); LIPIDS (metabolism); MALE; METHODS; RATS; SPECIES SPECIFICITY; SWINE; TRITONS; UREA.

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ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL; CALCIUM (pharmacodynamics); KINETICS; MAGNESIUM (pharmacodynamics);

MALONATES (pharmacodynamics); MITOCHONDRIA, LIVER (metabolism); OSMOLAR CONCENTRATION; OXALOACETATES (pharmacodynamics); OXYGEN CONSUMPTION (drug effects); POTASSIUM CHLORIDE (pharmacodynamics); RATS; SUCCINATES (metabolism).

Fagan JE

MAXIMIZING DIABETIC CONTROL IN CHILDREN: AN IMPROVED METHOD FOR MONITORING Fagan JE, McArthur RG *Postgrad Med* 63: 58-65, Feb 78 (Eng) DL/78JUN322  
CASE REPORT; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS, JUVENILE (drug therapy, urine); FEMALE; GLYCOSURIA; HUMAN; INSULIN (therapeutic use); MALE; TIME FACTORS.

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GLUCOSE INSULIN INFUSION AND OUABAIN TOXICITY. Fahmy SH, Sharaf EM, Saad Y, el-Mikatti N, Guirgis ZI, el-Mallakh M, Abd-el-Wahed S *J Egypt Med Assoc* 60: 71-8, 1977 (Eng) DL/78JUN227  
ANIMAL; ARRRHYTHMIA (chemically induced); DOGS; GLUCOSE (pharmacodynamics); INFUSIONS, PARENTAL; INSULIN (pharmacodynamics); MALE; OUABAIN (toxicity).

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ANIMAL; CADMIUM (pharmacodynamics); CELLS, CULTURED; CYANIDES (pharmacodynamics); GLUCAGON (pharmacodynamics); INSULIN (pharmacodynamics); IODOACETAMIDE (pharmacodynamics); LIVER (cytology, metabolism); MALE; OLIGOMYCIN (pharmacodynamics); PROTEIN BINDING; RATS; TEMPERATURE; U.S. GOVT SUPPORTED, N.I.H. ; ZINC (metabolism); 17-HYDROXYCORTICOSTEROIDS (pharmacodynamics); 17-HYDROXYCORTICOSTEROIDS, SYNTHETIC (pharmacodynamics).

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ADOLESCENCE; CASE REPORT; DEAFNESS (complications); DIABETES INSIPIDUS (complications); DIABETES MELLITUS (complications); ENGLISH ABSTRACT; FEMALE; HUMAN; OPTIC NEURITIS (complications); SYNDROME.

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ANIMAL; BINDING, COMPETITIVE; CALCIUM (metabolism); CARRIER PROTEINS (isolation & purification, metabolism); CELL MEMBRANE (metabolism); FEMALE; KINETICS; LIPOPROTEINS (isolation & purification, metabolism); MEMBRANE LIPIDS (analysis); MOLECULAR WEIGHT; MYOCARDIUM (metabolism); PHOSPHOLIPIDS (analysis); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. .

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ADULT; ARTERIES (physiopathology); BLOOD SUGAR (metabolism); BRACHIAL ARTERY; DIABETES MELLITUS (blood, physiopathology); GLUCAGON (blood); GLUCOSE (diagnostic use); HEPATIC VEINS; HUMAN; LIVER (metabolism); MALE; MIDDLE AGE; U.S. GOVT SUPPORTED, N.I.H. .

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ANGIOGRAPHY, ACUTE RENAL FAILURE, AND DECREASED INSULIN REQUIRE-



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CORONARY VESSELS (radiography);  
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(administration & dosage, therapeutic use);  
KIDNEY FAILURE, ACUTE (etiology); KIDNEY  
FAILURE, CHRONIC (complications).

**Fielding JW**

**THE EFFECT OF SMALL BOWEL BYPASS ON  
DIABETES MELLITUS.** Fielding JW, Baddeley  
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WEIGHT; DIABETES MELLITUS (therapy);  
FEMALE; GLUCOSE TOLERANCE TEST;  
HUMAN; ILEUM (surgery); JEJUNUM (surgery);  
MALE; MIDDLE AGE; OBESITY IN DIABETES  
(therapy); TIME FACTORS.

**Findlay DM**

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**Finochi G**

**INSULIN SECRETION IN CHILDREN WITH  
GROWTH RETARDATION.** Boscherini B,  
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IN A SMALL CHILD. WITH DIABETES MEL-  
LITUS AS A LATER COMPLICATION.** Fisher  
S, Drash A *Clin Pediatr (Phila)* 17: 297-9, Mar  
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CHILD; DIABETES MELLITUS, JUVENILE  
(complications); DIAGNOSIS, DIFFERENTIAL;  
HUMAN; MALE; PANCREATIC DISEASES  
(complications, diagnosis); TIME FACTORS; U.S.  
GOVT SUPPORTED, N.H. ).

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**DIABETES IN IDENTICAL TRIPLETS.** McKen-  
drick MW, Fitzgerald MG *Br Med J* 1: 482, 25  
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**SPECIFIC DISTRIBUTION OF FATTY ACIDS IN  
THE TRIGLYCERIDES OF RAINBOW  
TROUT ADIPOSE TISSUE. INFLUENCE OF  
TEMPERATURE.** Leger C, Bergot P, Luquet P,  
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**PHOSPHOLIPID METABOLISM IN CELLS  
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LITUS]** Flores-Izquierdo G, Gutierrez-Vogel S  
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ANGIOPATHIES (radiography); HUMAN.

**Foa PP**

**THE SERUM GLUCOSE RESPONSE TO GLU-  
CAGON SUPPRESSION WITH SO-  
MATOSTATIN, INSULIN OR ANTIGLU-  
CAGON SERUM IN DEPANCREATIZED  
RATS.** Dunbar JC, Walsh MF, Foa PP  
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SECRETION]** Balestreri R, Bertolini S, Castello  
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GROUP.** Drexler J, Liu AC, Foti AG *Acta  
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GASTRIC ACID SECRETION. IMPROVEMENT OF THE DISCRIMINATIVE  
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Fouque B, Serre F, Gavend M, Bonnet-Eymard J  
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GASTRIC ACID SECRETION. IMPROVEMENT OF THE DISCRIMINATIVE  
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ADULT; DUODENAL ULCER (diagnosis,  
surgery); ENGLISH ABSTRACT; FEMALE;  
GASTRIC JUICE (secretion); GASTRINS  
(blood); HUMAN; INSULIN (diagnostic use);  
MALE; MIDDLE AGE; PROPRANOLOL  
(pharmacodynamics); VAGOTOMY.

**Francois G**

**[CLINICAL SIGNS AND ETIOLOGICAL  
ASPECTS OF METABOLIC EN-  
CEPHALOPATHIES EXCLUDING LIVER EN-  
CEPHALOPATHY AND REALIMENTATION  
SYNDROME]** Francois G, Gouin F, Pedrant G  
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ref.] DL/78JUN449

CONSCIOUSNESS DISORDERS (etiology);  
EMBOLISM, FAT (etiology); ENGLISH  
ABSTRACT; HUMAN; HYPERGLYCEMIC  
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(etiology); LIVER DISEASES (metabolism);  
MAGNESIUM DEFICIENCY (etiology);  
METABOLIC DISEASES (etiology); MOTOR  
ACTIVITY; PARENTAL FEEDING (adverse  
effects); PARENTAL  
HYPERALIMENTATION (adverse effects);  
PUPIL (physiopathology); REVIEW;  
SYNDROME; WATER INTOXICATION  
(etiology); WERNICKES ENCEPHALOPATHY  
(etiology).

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**PLASMA COFACTORS OF PLATELET FUNC-  
TION: CORRELATION WITH DIABETIC**

**RETINOPATHY AND HEMOGLOBINS ALA-  
C.** Collier BS, Frank RN, Milton RC, Gralnick  
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**DEVELOPMENT OF THE INSULIN SECRETORY  
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(DB/DB) MOUSE.** Berglund O, Frankel BJ, Hell-  
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**NOCTURNAL INTRAGASTRIC INFUSION OF  
GLUCOSE IN MANAGEMENT OF DEFEC-  
TIVE GLUCONEOGENESIS WITH  
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**MANAGEMENT AND OUTCOME OF  
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CLASSES B TO R.** Gabbe SG, Mestman JH,  
Freeman RK, Goebelsmann UT, Lowensohn RI,  
Nohmison D, Cetrulo C, Quilligan EJ *Am J Ob-  
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**ESTRIOL IN PREGNANCY. V. UNCONJUGATED  
AND TOTAL PLASMA ESTRIOL IN  
THE MANagements OF PREGNANT  
DIABETIC PATIENTS.** Distler W, Gabbe SG,  
Freeman RK, Mestman JH, Goebelsmann U *Am  
J Obstet Gynecol* 130: 424-31, 15 Feb 78 (Eng)  
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**GASTRIC INHIBITORY POLYPEPTIDE (GIP)  
AND INSULIN IN OBESITY: INCREASED  
RESPONSE TO STIMULATION AND DEFEC-  
TIVE FEEDBACK CONTROL OF SERUM  
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DETERMINATION]** Schauder P, Frerichs H  
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TRANSPORT SITES ON HUMAN SPER-  
MATOZOA AND INHIBITION OF BINDING  
BY PURINES.** Peterson RN, Bundman D,  
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**[PERI-OPERATIVE CARE OF DIABETICS  
(AUTHORS TRANSL.)]** Abdulla W, Beyer J,  
Frey R *MMW. Muench Med Wochenschr* 120:  
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**RESPONSES TO SUSTAINED USE OF ANABOL-  
IC STEROID.** Shepherd RJ, Killinger D, Fried T  
*Br J Sports Med* 11: 170-3, Dec 77 (Eng)  
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**CIGARETTE SMOKING HABITS AND URINE  
CHARACTERISTICS: URINALYSIS ABNOR-  
MALITIES ARE MORE COMMON IN  
SMOKERS, BUT THE REASONS ARE UN-  
CLEAR.** Dales LG, Friedman GD, Siegelbaum AB,  
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**HYPERPHAGIA IN RATS WITH EXPERIMEN-  
TAL DIABETES MELLITUS: A RESPONSE TO  
A DECREASED SUPPLY OF UTILIZABLE  
FUELS.** Friedman MI *J Comp Physiol Psychol*  
92: 109-17, Feb 78 (Eng) DL/78JUN221

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ANIMAL; BLOOD SUGAR (analysis); BODY COMPOSITION; COMPARATIVE STUDY; DIABETES MELLITUS, EXPERIMENTAL (complications, diet therapy); DIET; DIETARY CARBOHYDRATES; DIETARY FATS; ENERGY METABOLISM; FATTY ACIDS, NONESTERIFIED (blood); FEEDING BEHAVIOR (physiology); FEMALE; GLYCOSURIA; INSULIN (blood); KETONE BODIES (urine); LIVER GLYCOGEN (analysis); MALE; RATS.

INSULIN-INDUCED HYPERPHAGIA IN ALLOXAN-DIABETIC RATS FED A HIGH-FAT DIET. Friedman MI *Physiol Behav* 19: 597-9, Nov 77 (Eng) DL/78JUN328

ANIMAL; APPETITE DISORDERS (etiology); BODY WEIGHT; DIABETES MELLITUS, EXPERIMENTAL (therapy); DIETARY FATS (therapeutic use); FEMALE; INSULIN, PROTAMINE ZINC (adverse effects); RATS; U.S. GOVT SUPPORTED, NON-N.I.H. ).

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PREPARATION AND APPLICATION OF NALPHA-BI, NEPSILON-B29-BIS (TER-BUTYLOXYCARBONYL)INSULIN. Friesen HJ, Naithani VK, Gattner HG *Hoppe Seylers Z Physiol Chem* 359: 103-11, Jan 78 (Eng) DL/78JUN193

AMINO ACIDS; AZIDES (pharmacodynamics); CATTLE; CHROMATOGRAPHY, ION EXCHANGE; DANSYL COMPOUNDS; ELECTROPHORESIS, CELLULOSE ACETATE; ELECTROPHORESIS, PAPER; INSULIN (analogs & derivatives, isolation & purification); TRIFLUOROACETIC ACID (metabolism).

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ANIMAL; FEMALE; GLYCOGEN PHOSPHORYLASE (metabolism); HUMAN; LIVER GLYCOGEN (metabolism); RATS; UREMIA (enzymology, metabolism).

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AMINOTRANSFERASES (biosynthesis); ANIMAL; ENZYME INDUCTION (drug effects); GEL DIFFUSION TESTS; GLUCAGON (pharmacodynamics); IMMUNELECTROPHORESIS; KINETICS; MALE; MITOCHONDRIA, LIVER (enzymology); PYRUVATES; RATS; SERINE.

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INTENSAL RESPONSES TO HYPEROSMOLAR GLUCOSE INFUSION IN DOGS. Fukushima T, Ishiguro N, Kito F, Suda T, Yamagishi T, Muraki T, Suzuki T, Tsuchiya S *Gastroenterol Jpn* 12: 30-8, 1977 (Eng) \*DL/78JUN42

ACETYLCHOLINE (pharmacodynamics); ANIMAL; ATROPINE (pharmacodynamics);

DOGS; FEMALE; GLUCOSE (administration & dosage, pharmacodynamics); INFUSIONS, PARENTERAL; INTESTINAL SECRETIONS (metabolism); JEJUNUM (blood supply, metabolism, ultrastructure); MALE; OSMOLAR CONCENTRATION; POTASSIUM (metabolism); REGIONAL BLOOD FLOW (drug effects); SODIUM (metabolism); VEINS.

# Fullano P

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MANAGEMENT AND OUTCOME OF PREGNANCY IN DIABETES MELLITUS, CLASSES B TO R. Gabbe SG, Mestman JH, Freeman RK, Goebelsmann UT, Lowensohn RJ, Nochimson D, Cetrulo C, Quilligan EJ *Am J Obstet Gynecol* 129: 723-32, 1 Dec 77 (Eng) DL/78JUN429

DELIVERY (methods); ESTRIOLE (urine); FEMALE; FETAL DEATH; FETAL MONITORING; HUMAN; HYPERTENSION (complications); INFANT MORTALITY; INFANT, NEWBORN; LABOR; MATERNAL MORTALITY; MORBIDITY; PREGNANCY IN DIABETES (complications, occurrence); PREGNANCY COMPLICATIONS, CARDIOVASCULAR (in pregnancy); PREGNANCY; UTERINE CONTRACTION.

ESTRIOL IN PREGNANCY. V. UNCONJUGATED AND TOTAL PLASMA ESTRIOLE IN THE MANagements OF PREGNANT DIABETIC PATIENTS. Distler W, Gabbe SG, Freeman RK, Mestman JH, Goebelsmann U *Am J Obstet Gynecol* 130: 424-31, 15 Feb 78 (Eng) DL/78JUN430

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ANIMAL; BLOOD SUGAR (metabolism); CATECHOLAMINES (blood); EXERTION; GLUCAGON (blood); GLYCOGEN (metabolism); INSULIN (blood); LIPID MOBILIZATION; LIVER GLYCOGEN (metabolism); MALE; MUSCLES (metabolism); PHYSICAL CONDITIONING, ANIMAL; RATS.

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MECHANICAL AND STRUCTURAL CHANGES IN RAT TAIL TENDON INDUCED BY ALLOXAN DIABETES AND AGING. Galeski A, Kastelic J, Baer E, Kohn RR *J Biomech* 10: 775-82, 1977 (Eng) DL/78JUN219

AGING; ANIMAL; DIABETES MELLITUS, EXPERIMENTAL (physiopathology); RATS; TAIL; TENDONS (physiopathology).

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FAILURE OF SOMATOSTATIN TO DIAGNOSE ORGANIC HYPERINSULINISM. Cascio VL, Galvanini G, Adami S, Cinti S, Bianchi I, Cominacini L, Scuro LA *Clin Endocrinol (Oxf)* 8: 81-3, Jan 78 (Eng) DL/78JUN133

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[PHOTOCOAGULATION IN COMPLEX TREATMENT OF SEVERE FORMS OF DIABETIC RETINOPATHY] Linnik LA, Ganichenko IN, Maryshev IuA *Oftalmol Zh* 32: 595-600, 14 Dec 77 (Rus) DL/78JUN308

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PERINATAL OUTCOME IN THE DIABETIC PREGNANCY: A RETROSPECTIVE ANALYSIS. Goldstein AI, Cronk DA, Garite T, Amle RN *J Reprod Med* 20: 61-6, Feb 78 (Eng) DL/78JUN243

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DIABETIC COMA (diagnosis, nursing, therapy); HUMAN.

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PREPARATION AND APPLICATION OF NALPHA-BI, NEPSILON-B29-BIS (TER-BUTYLOXYCARBONYL)INSULIN. Friesen HJ, Naithani VK, Gattner HG *Hoppe Seylers Z Physiol Chem* 359: 103-11, Jan 78 (Eng) DL/78JUN193

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HOW DO PROBLEMS ENCOUNTERED IN THE PRELIMINARY STAGE OF RESEARCH AFFECT A STUDY? Geden EA, Taylor SG *Nurs Res* 27: 130-2, Mar-Apr 78 (Eng) DL/78JUN314

COLOR PERCEPTION; DISCRIMINATION LEARNING; GLYCOSURIA (diagnosis); HUMAN; REAGENT STRIPS; RESEARCH DESIGN.

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HUMAN; INSULIN RESISTANCE; OBESITY (metabolism).

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ANIMAL; DIABETES MELLITUS, EXPERIMENTAL (pathology); EPITHELIUM (pathology); INSULIN (deficiency); MALE; MITOSIS; MOUTH MUCOSA (pathology); PALATE (pathology); RATS; TIME FACTORS.

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ADULT; DIABETES MELLITUS, JUVENILE (complications); DIABETIC NEPHROPATHIES (etiology); FEMALE; HUMAN; KIDNEY FAILURE, CHRONIC (etiology, therapy); MIDDLE AGE; RISK; UROGRAPHY (adverse effects).

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ANIMAL; CELL DIVISION (drug effects); DNA (biosynthesis); EPINEPHRINE (pharmacodynamics); FEMALE; GLUCAGON (pharmacodynamics); HEPARIN (pharmacodynamics); HISTAMINE (pharmacodynamics); ISOPROTERENOL (pharmacodynamics); LIVER REGENERATION (drug effects); LIVER (drug effects, physiology); NOREPINEPHRINE (pharmacodynamics); PUTRESCINE (pharmacodynamics); RATS.

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BLOOD SUGAR (analysis); COMPARATIVE STUDY; ENGLISH ABSTRACT; GLIBENCLAMIDE (pharmacodynamics); GLISOXEPIDE (pharmacodynamics); HUMAN; INSULIN (blood, secretion); PROINSULIN (blood, secretion); SULFONYLUREA COMPOUNDS (pharmacodynamics); TIME FACTORS; TOLBUTAMIDE (pharmacodynamics).

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AGED; ALDOSTERONE (deficiency); AMILORIDE (adverse effects, therapeutic use); CASE REPORT; DIABETES MELLITUS (complications); FEMALE; HEART FAILURE, CONGESTIVE (drug therapy); HUMAN; HYDROCHLOROTHIAZIDE (adverse effects, therapeutic use); HYPERKALEMIA (chemically induced); PYRAZINES (adverse effects); RENIN (deficiency).

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ACETATES (metabolism); ADIPOSE TISSUE (drug effects, metabolism); ANIMAL; FATTY ACIDS (biosynthesis, pharmacodynamics); FEMALE; IN VITRO; RATS; TRIGLYCERIDES (metabolism).

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ANIMAL; BLOOD SUGAR (analysis); DIABETES MELLITUS, EXPERIMENTAL (therapy); FEMALE; GLUCOSE (metabolism); GLYCOSURIA; INSULIN (blood); ISLANDS OF LANGERHANS (transplantation); MALE; RATS; TRANSPLANTATION, ISOGENEIC (transplantation).

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A-23187 (pharmacodynamics); ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ADIPOSE TISSUE (metabolism); ADULT; ANTIBIOTICS (pharmacodynamics); CALCIUM (pharmacodynamics); ENDOTOXINS (pharmacodynamics); ESCHERICHIA COLI; FATTY ACIDS, NONESTERIFIED (metabolism); FEMALE; GLYCERIN (metabolism); HUMAN; IN VITRO; ISOPROTERENOL (pharmacodynamics); MALE; MIDDLE AGE; NOREPINEPHRINE (pharmacodynamics); PHENTOLAMINE (pharmacodynamics); PROPRANOLOL (pharmacodynamics); RECEPTORS, ADRENERGIC (metabolism).

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RELATIONSHIP BETWEEN INSULIN AND ESTROGEN BINDING TO GROWTH RESPONSE IN 7,12-DIMETHYLBENZ(A)ANTHRACENE-INDUCED RAT MAMMARY TUMORS. Shafie SM, Hilf R *Cancer Res* 38: 759-64, Mar 78 (Eng) DL/78JUN122

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ADULT; AGED; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN RESISTANCE; MIDDLE AGE; RECEPTORS, INSULIN (analysis); SJOGREN SYNDROME (metabolism).

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PANCREATIC AUTOTRANSPLANTATION FOLLOWING RESECTION. Hogle HH, Recemtsma K *Surgery* 83: 359-60, Mar 78 (Eng) DL/78JUN349

ADULT; CASE REPORT; CHOLECYSTECTOMY; CHRONIC DISEASE; CYSTIC DUCT (surgery); DIABETES MELLITUS (prevention & control); FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INFANT, NEWBORN; PANCREAS (transplantation); PANCREATICTOMY; PANCREATITIS (surgery); PREGNANCY; SPLENIC ARTERY (transplantation); SPLENIC VEIN (transplantation); THIGH (blood supply); TRANSPLANTATION, AUTOLOGOUS (transplantation).

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EFFECT OF INSULIN INDUCED HYPOGLYCAEMIA ON THE BLOOD LEVELS OF CATECHOLAMINES, GLUCAGON, GROWTH HORMONE, CORTISOL, C-PEPTIDE AND PROINSULIN BEFORE AND DURING MEDICATION WITH THE CARDIOSELECTIVE BETA-RECEPTOR BLOCKING AGENT METOPROLOL IN MAN. Hokfelt B, Hansson BG, Hedling LG, Nilsson KO *Acta Endocrinol (Kbh)* 87: 659-67, Mar 78 (Eng) DL/78JUN399

ADULT; C-PEPTIDE (blood); CATECHOLAMINES (blood); CLINICAL RESEARCH; GLUCAGON (blood); HALF-LIFE; HUMAN; HYDROCORTISONE (blood); HYPERTENSION (blood, drug therapy); HYPOGLYCEMIA (blood); INSULIN (blood); MALE; METOPROLOL (therapeutic use); MIDDLE AGE; PEPTIDES (blood); PROINSULIN (blood); PROPANOLAMINES (therapeutic use); SOMATOTROPIN (blood).

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SERUM LIPIDS IN TREATED DIABETIC CHILDREN AND THEIR FAMILIES. Mann JI, Hughson WG, Holman RR, Honour AJ, Thorogood M, Smith A, Baum JD *Clin Endocrinol (Oxf)* 8: 27-33, Jan 78 (Eng) DL/78JUN131

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ANIMAL; DOGS; GASTRIC MUCOSA (analysis); GLUCAGON (immunology, isolation & purification, physiology); HISTOCYTOCHEMISTRY; HUMAN; IMMUNE SERUMS; INTESTINAL MUCOSA (analysis); PANCREATICTOMY; RADIOIMMUNOASSAY; REVIEW; SPECIES SPECIFICITY; SWINE; TISSUE DISTRIBUTION.

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ACETATE AS A CARBON SOURCE FOR LIPID SYNTHESIS IN CULTURED CELLS. Howard BV *Biochim Biophys Acta* 488: 145-51, 20 Jul 77 (Eng) \*DL/78JUN7

ACETATES (metabolism); CELLS, CULTURED; FATTY ACIDS (biosynthesis); FIBROBLASTS (drug effects, metabolism); GLUCOSE (metabolism, pharmacodynamics); HUMAN; LIPIDS (biosynthesis); MALE; SKIN

(metabolism); STEROLS (biosynthesis); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ALVEOLITIS, EXTRINSIC ALLERGIC (chemically induced, diagnosis, immunology, physiopathology); ANTI-INFECTION AGENTS (adverse effects); ANTI-INFLAMMATORY AGENTS (adverse effects); ANTICONVULSANTS (adverse effects); ANTIHYPERTENSIVE AGENTS (adverse effects); ANTINEOPLASTIC AGENTS (adverse effects); DRUG THERAPY (adverse effects); ENGLISH ABSTRACT; HUMAN; HYPOGLYCEMIC AGENTS (adverse effects); IMMUNITY, CELLULAR; REVIEW.

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ACIDOSIS (complications); HEMODIALYSIS; HUMAN; LACTATES (metabolism); PHENFORMIN.

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INSULIN-LIKE GROWTH FACTOR: A MODEL FOR TERTIARY STRUCTURE ACCOUNTING FOR IMMUNOREACTIVITY AND RECEPTOR BINDING. Blundell TL, Bedarkar S, Rinderknecht E, Humbel RE *Proc Natl Acad Sci USA* 75: 180-4, Jan 78 (Eng) DL/78JUN325

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**[MORPHOLOGY OF THE ENDOCRINE PORTION OF THE TELEOST PANCREAS]** Iaglov VV *Ark Anat Gistol Embriol* 74: 111-5, Jan 78 (Rus) DL/78JUN474

**ANIMAL; CAPILLARIES (anatomy & histology); CARP (anatomy & histology); COMPARATIVE STUDY; CYTOPLASMIC GRANULES (ultrastructure); ENGLISH ABSTRACT; FISHES (anatomy & histology); ISLANDS OF LANGERHANS (anatomy & histology, cytology, ultrastructure); MICROSCOPY, ELECTRON; PERIPHERAL NERVES (anatomy & histology); SPECIES SPECIFICITY.**

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**[DAILY BIORHYTHM OF URINARY CATECHOLAMINE EXCRETION IN BRONCHIAL ASTHMA: ITS DEPENDENCE ON THE CLINICAL COURSE AND FUNCTIONAL LOAD]** Lerner IP, Sinelnikova AL, Ialkut SI, Danilova SA *Fiziol Zh* 24: 103-7, Jan-Feb 78 (Rus) DL/78JUN156

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**IMMUNOCHEMICAL STUDIES ON INDUCTION OF RAT LIVER MITOCHONDRIAL SERINE: PYRUVATE AMINOTRANSFERASE BY GLUCAGON.** Fukushima M, Aihara Y, Ichiyama A *J Biol Chem* 253: 1187-94, 25 Feb 78 (Eng) DL/78JUN216

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**STUDIES ON LIPID AND CARBOHYDRATE METABOLISM DURING SURFACE-INDUCED DEEP HYPOTHERMIA WITH CIRCULATORY ARREST FOR OPEN-HEART SURGERY.** Shida H, Morimoto M, Inokawa K, Tsugane J *Jpn J Surg* 7: 211-6, Dec 77 (Eng) DL/78JUN250

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**[HYPEROSMOLAR DIABETIC COMA—OSMOLALITY AND UREA (LETTER)]** Irsigler K, Kaspar L *Dtsch Med Wochenschr* 103: 174, 27 Jan 78 (Ger) DL/78JUN142

**DIABETIC COMA (blood, cerebrospinal fluid, diagnosis); EXTRACELLULAR SPACE; HUMAN; OSMOLAR CONCENTRATION; UREA (blood).**

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**SOLUBLE IMMUNE COMPLEXES IN THE SERA OF NEWLY DIAGNOSED INSULIN-DEPENDENT DIABETICS AND IN TREATED DIABETICS.** Irvine WJ, Al-Khateeb SF, Di Mario U, Feek CM, Gray RS, Edmond B, Duncan LJ *Clin Exp Immunol* 30: 16-21, Oct 77 (Eng) DL/78JUN135

**ADOLESCENCE; ADULT; AGE FACTORS; ANTIBODIES, VIRAL (analysis); ANTIGEN-ANTIBODY COMPLEX; AUTOANTIBODIES (analysis); DIABETES MELLITUS (drug therapy, immunology); FEMALE; HUMAN; INSULIN ANTIBODIES (analysis); INSULIN (therapeutic use); MALE; TIME FACTORS.**

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**SOME AUDIOLOGICAL ASPECTS OF DIABETES MELLITUS.** Taylor IG, Irwin J *J Laryngol Otol* 92: 99-113, Feb 78 (Eng) DL/78JUN236

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**FAILURE OF GLUCAGON TO INFLUENCE ION TRANSPORT ACROSS HUMAN JEJUNAL AND ILEAL MUCOSA IN VITRO.** Isaacs PE, Turnberg LA *Gut* 18: 1059-61, Dec 77 (Eng) DL/78JUN188

**BIOLOGICAL TRANSPORT, ACTIVE (drug effects); CHLORIDES (metabolism); GLUCAGON (pharmacodynamics); HUMAN; ILEUM (metabolism); IN VITRO; INTESTINAL MUCOSA (metabolism); JEJUNUM (metabolism); SODIUM (metabolism); TIME FACTORS.**

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**HLA AND GRAVES DISEASE OR DIABETES MELLITUS IN JAPAN [LETTER]** Sasazuki T, Kohno Y, Iwamoto I, Kosaka K, Okimoto K, Maruyama H, Ishiba S, Konishi J, Takeda Y, Naito S *N Engl J Med* 298: 630-1, 16 Mar 78 (Eng) DL/78JUN296

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**[HYPERKALEMIA CAUSED BY HYPORENINISM: ROLE OF THE HYDROCHLOROTHIAZIDE-AMLOPRIDE COMBINATION]** Heim J, Dewailly P, Jaillard J *Lille Med* 22: 793-7, Dec 77 (Fre) DL/78JUN275

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**[SERUM OESTRIOL: A PARAMETER OF THE FUNCTION OF THE FETO-PLACENTAL UNIT (AUTHORS TRANSL.)]** Altmann P, Janisch H, Muller-Tyl E, Reinold E, Spona J, Havelec L *Wien Klin Wochenschr* 90: 121-7, 17 Feb 78 (Ger) DL/78JUN368

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**SYNTHESIS AND ACCUMULATION OF POLYAMINES IN RAT LIVER DURING CHEMICAL CARCINOGENESIS.** Scalabrino G, Poso H, Holtta E, Hannonen P, Kallio A, Janne J *Int J Cancer* 21: 239-45, 15 Feb 78 (Eng) DL/78JUN201

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**A HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY METHOD FOR HEMOGLOBIN A1C.** Davis JE, McDonald JM, Jarett L *Diabetes* 27: 102-7, Feb 78 (Eng) DL/78JUN160

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**HYPERLIPIDAEMIA IN CHILDREN ON REGULAR HAEMODIALYSIS.** El-Bishti M, Counahan R, Jarrett RJ, Stimmler L, Wass V, Chanter C *Arch Dis Child* 52: 932-6, Dec 77 (Eng) DL/78JUN461

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**EFFECTS OF HORMONES ON THE SYNTHESIS OF ALPHA 1 (ACUTE-PHASE) GLYCOPROTEIN IN ISOLATED RAT HEPATOCYTES.** Jeejeebhoy KN, Ho J, Mehra R, Jeejeebhoy J, Bruce-Robertson A *Biochem J* 168: 347-52, 15 Dec 77 (Eng) DL/78JUN478

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**ALBUMINS (biosynthesis); ANIMAL; DACTINOMYCIN (pharmacodynamics); GLUCAGON (pharmacodynamics); GLYCOPROTEINS (biosynthesis); HORMONES (pharmacodynamics); HYDROCORTISONE (pharmacodynamics); IN VITRO; INSULIN (pharmacodynamics); LIVER (cytology, drug effects, metabolism); RATS; SOMATOTROPIN (pharmacodynamics); TRIIODOTHYRONINE (pharmacodynamics).**

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**EFFECT OF CIMETIDINE ON GLUCOSE HANDLING [LETTER]** Jefferys DB, Vale JA *Lancet* 1: 383, 18 Feb 78 (Eng) DL/78JUN271

## Jelenic PA

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## Jelenic PA

COMPARISON OF THE INTRAVENOUS GLUCOSE TOLERANCE TEST IN NORMAL DOGS AND DOGS WITH ACHALASIA OF THE ESOPHAGUS. Jelenic EV, Jelenic PA, Gohara A, Lee DC, Clifford DH *VM SAC* 73: 41-4, Jan 77 (Eng) DL/78JUN354

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ANIMAL; BLOOD SUGAR (analysis); CARDIOPASM (blood, congenital, veterinary); DOG DISEASES (blood, congenital); DOGS; GLUCOSE TOLERANCE TEST (veterinary).

## Jensen SL

MESENCHYMAL TUMOR HYPOGLYCEMIA: THE EFFECT OF A TUMOR TISSUE EXTRACT ON THE INSULIN AND GLUCAGON SECRETION FROM THE ISOLATED PERFUSED PORCINE PANCREAS. Jensen SL, Kuhl C, Lauritsen KB, Moody AJ *Am J Surg* 135: 192-5, Feb 78 (Eng) DL/78JUN440

AGED; ANIMAL; ARGININE (antagonists & inhibitors); CASE REPORT; FEMALE; GLUCAGON (secretion); HUMAN; HYPOGLYCEMIA (etiology); INSULIN (secretion); MESENCHYMOMA (analysis, complications); PANCREAS (drug effects); PANCREATIC NEOPLASMS (analysis, complications); SWINE; TISSUE EXTRACTS (pharmacodynamics).

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METABOLIC AND CARDIOVASCULAR RESPONSES TO NOREPINEPHRINE IN TRAINED AND NONTRAINED HUMAN SUBJECTS. LeBlanc J, Boulay M, Dulac S, Jobin M, Labrie A, Rousseau-Migneron S *J Appl Physiol* 42: 166-73, Feb 77 (Eng) DL/78JUN204

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TREATMENT OF FAMILIAL PERIODIC HYPOKALEMIA WITH PROPRANOLOL (INDERAL). Johnson *Acta Neurol Scand* 56: 613-9, Dec 77 (Eng) DL/78JUN403  
ACUTE DISEASE; ADOLESCENCE; ADULT; BLOOD SUGAR (analysis); DRUG EVALUATION; HUMAN; HYPOKALEMIA (drug therapy, prevention & control); INSULIN (blood); MALE; PARALYSIS, FAMILIAL PERIODIC (drug therapy, prevention & control); POTASSIUM (blood); PROPRANOLOL (therapeutic use).

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TRIAL OF THE PROPHYLACTIC EFFECT OF DIAZOXIDE IN THE TREATMENT OF FAMILIAL PERIODIC HYPOKALEMIA. Johnson T *Acta Neurol Scand* 56: 525-32, Dec 77 (Eng) DL/78JUN400

ACUTE DISEASE; BLOOD SUGAR (analysis); CLINICAL RESEARCH; DIAZOXIDE (therapeutic use); DRUG EVALUATION; DRUG RESISTANCE; HUMAN; HYPOKALEMIA (drug therapy, prevention & control); INSULIN (blood);

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EFFECT UPON SERUM INSULIN, GLUCOSE AND POTASSIUM CONCENTRATIONS OF ACETAZOLAMIDE DURING ATTACKS OF FAMILIAL PERIODIC HYPOKALEMIC PARALYSIS. Johnson T *Acta Neurol Scand* 56: 533-41, Dec 77 (Eng) DL/78JUN401

ACETAZOLAMIDE (therapeutic use); ACUTE DISEASE; ADOLESCENCE; ADULT; BLOOD SUGAR (analysis); DRUG EVALUATION; HUMAN; HYPOKALEMIA (drug therapy, prevention & control); INSULIN (blood); MALE; MIDDLE AGE; PARALYSIS, FAMILIAL PERIODIC (drug therapy, prevention & control); POTASSIUM (blood).

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REGIONAL PANCREATIC CONCENTRATION AND IN-VITRO SECRETION OF CANINE PANCREATIC POLYPEPTIDE, INSULIN, AND GLUCAGON. Gingerich RL, Lacy PE, Chance RE, Johnson MG *Diabetes* 27: 96-101, Feb 78 (Eng) DL/78JUN169

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SELF-ASSOCIATION OF GLUCAGON AS MEASURED BY THE OPTICAL PROPERTIES OF RHODAMINE 6G. Johnson ML, Formisano S, Edelhoch H *J Biol Chem* 253: 1353-6, 10 Mar 78 (Eng) DL/78JUN217  
ANILINO NAPHTHALENESULFONATES; GLUCAGON; KINETICS; MACROMOLECULAR SYSTEMS; PROTEIN BINDING; PROTEIN CONFORMATION; RHODAMINES; SPECTROMETRY, FLUORESCENCE; XANTHENES.

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SEMI-QUANTITATIVE TEST FOR URINARY GLUCOSE: COMPARISON BETWEEN CLINISTEST AND KETO-DIABUR. Desjeux JF, Jolivet I, Lestrade H *Acta Paediatr Belg* 30: 191-2, Jul-Sep 77 (Eng) DL/78JUN406

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EFFECT OF GLUCAGON AND BLOOD TRANSFUSION ON LIVER METABOLISM IN HEMORRHAGIC SHOCK. Lindberg B, Haljamae H, Jonsson O, Pettersson S *Ann Surg* 187: 103-9, Feb 78 (Eng) DL/78JUN462

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ABNORMALITIES IN THE REGULATION OF GROWTH HORMONE IN CHRONIC RENAL FAILURE. Ramirez G, O'Neill WM, Bloomer HA, Jubiz W *Arch Intern Med* 138: 267-71, Feb 78 (Eng) DL/78JUN465

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MEDICAL, OCCUPATIONAL AND SMOKING CHARACTERISTICS RELATED TO ISCHEMIC HEART DISEASE IN MEN AND WOMEN. FIELD SURVEY OF AGE GROUP 40 - 59 IN A RURAL POPULATION AT HAAPAVESI, NORTHERN FINLAND. Juustila

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ADULT; AGED; BODY HEIGHT; BODY WEIGHT; CHOLESTEROL (blood); CORONARY DISEASE (etiology, occurrence); DIABETES MELLITUS (complications); ELECTROCARDIOGRAPHY (economics); FEMALE; FINLAND; GLUCOSE TOLERANCE TEST; HUMAN; HYPERTENSION (complications); MALE; MIDDLE AGE; OBESITY (complications); OCCUPATIONS; RISK; RURAL POPULATION; SMOKING (complications); TRIGLYCERIDES (blood).

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[INSULIN AND PRO-INSULIN SECRETION FOLLOWING INTRAVENOUS ADMINISTRATION OF TOLBUTAMIDE, GLIOXEPIDE AND GLIBENCLAMIDE] Hausmann L, Schumann G, Kaffarnik H *Arzneim Forsch* 28: 83-6, 1978 (Ger) DL/78JUN485

PLASMA LIPIDS, TRIGLYCERIDE/FATTY ACID PATTERN, AND PLASMA INSULIN IN FASTED HEALTHY VOLUNTEERS DURING CONTINUOUS INGESTION OF ETHANOL. INFLUENCE OF LIPOLYSIS INHIBITED BY NICOTINIC ACID. Kaffarnik H, Schneider J, Schubotz R, Hausmann L, Muhlfeiler G, Muhlfeiler G, Zofel P *Atherosclerosis* 29: 1-7, Jan 78 (Eng) DL/78JUN486

ADIPOSE TISSUE (metabolism); ADULT; ALCOHOL DRINKING; ALCOHOL, ETHYL (pharmacodynamics); FASTING; FATTY ACIDS (blood, metabolism); HUMAN; INSULIN (blood); LIPIDS (blood); MALE; NICOTINIC ACIDS (pharmacodynamics); TRIGLYCERIDES (blood).

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INVOLVEMENT OF MEMBRANE SULFHYDRYLS IN THE ACTIVATION AND MAINTENANCE OF NUTRIENT TRANSPORT IN CHICK EMBRYO FIBROBLASTS. Smith-Johannsen H, Perdue JF, Ramjeesingh M, Kahlenberg A *J Supramol Struct* 7: 37-48, 1977 (Eng) DL/78JUN262

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EFFECT OF EXERCISE ON GLUCOSE AND INSULIN UTILIZATION IN THE FOREARM. Kalant N, Leibovici T, Rohan I, McNeil K *Metabolism* 27: 333-40, Mar 78 (Eng) DL/78JUN285  
ADULT; AGED; BLOOD SUGAR; EXERCISE TEST; FEMALE; FOREARM; HUMAN; INSULIN (blood); KINETICS; MALE; MIDDLE AGE.

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**EFFECTS OF RITODRINE AND ISOXSUPRINE WITH AND WITHOUT DEXAMETHASONE DURING LATE PREGNANCY.** Kaupilla A, Tuimala R, Ylikorkala O, Haapalahti J, Karppanen H, Viinikka L *Obstet Gynecol* 51: 288-92, Mar 78 (Eng) DL/78JUN306

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**ADENOSINE CYCLIC 3,5-MONOPHOSPHATE (metabolism); ADOLESCENCE; ADULT; BLOOD SUGAR (metabolism); COMPARATIVE STUDY; DEXAMETHASONE (pharmacodynamics); FEMALE; HUMAN; INSULIN (metabolism); IRON (metabolism); ISOXSUPRINE (pharmacodynamics); LIPIDS**

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**IMPORTANCE OF INSULIN SECRETION BASED ON THE RATE OF CHANGE IN BLOOD GLUCOSE CONCENTRATION IN GLUCOSE TOLERANCE, ASSESSED BY THE ARTIFICIAL BETA CELL.** Kawamori R, Shichiri M, Goriya Y, Yamasaki Y, Shigeta Y, Abe H *Acta Endocrinol (Kbh)* 87: 339-51, Feb 78 (Eng) DL/78JUN393

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Keller L

3,5 MONOPHOSPHATE (metabolism); IN VITRO; ISOPROTERENOL (pharmacodynamics); MALE; MYOCARDIUM (enzymology, metabolism); PHENTOLAMINE (pharmacodynamics); PHENYLEPHRINE (pharmacodynamics); PHOSPHODIESTERASES (antagonists & inhibitors); PROPRANOLOL (pharmacodynamics); PROTEIN KINASE (metabolism); RATS; RECEPTORS, ADRENERGIC (physiology); RECEPTORS, ADRENERGIC, ALPHA (drug effects, physiology); RESERPINE (pharmacodynamics); TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; XANTHINES (pharmacodynamics).

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[DIABETES AND PREGNANCY] Kloosterman GJ *Verh K Acad Geneesk Belg* 39: 181-98, 1977 (Dut) DL/78JUN376  
ABNORMALITIES (etiology); ADULT; BIRTH WEIGHT; ENGLISH ABSTRACT; FEMALE; FETAL DEATH (etiology); HUMAN; HYDRAMNIOS (etiology); INFANT, NEWBORN; INFANT, PREMATURE; PREGNANCY IN DIABETES (complications); PREGNANCY TOXEMIAS (etiology); PREGNANCY.

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ESTABLISHMENT OF AN ALBINO SAND RAT (PSAMMOMYS OBEUS) COLONY AND COMPARISON WITH THE NATURAL COLOURED ANIMAL. Shaham Y, Lelyveld J, Marder U, Mendelsohn H, Paz G, Kraicer PF *Lab Anim* 12: 13-7, Jan 78 (Eng) DL/78JUN258

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AGE FACTORS; AGED; AMPUTATION (methods); ANEMIA (complications); ARTERIOSCLEROSIS OBLITERANS (complications); DIABETES MELLITUS (complications); FEMALE; FEVER (complications); FOOT DISEASES (surgery); FOOT (blood supply); GANGRENE (surgery); HUMAN; MALE; MIDDLE AGE; POSTOPERATIVE COMPLICATIONS (poisoning); RETROSPECTIVE STUDIES; TIME FACTORS; WOUND HEALING.

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ESTABLISHMENT OF AN ALBINO SAND RAT (PSAMMOMYS OBESE COLONY AND COMPARISON WITH THE NATURAL COLOURED ANIMAL. Shaham Y, Lelyveld J, Marder U, Mendelsohn H, Paz G, Kraicer PF *Lab Anim* 12: 13-7, Jan 78 (Eng) DL/78JUN258

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ANIMAL; ANTIBODIES; B-LYMPHOCYTES (immunology); CHROMIUM RADIOISOTOPES; CYTOTOXICITY, IMMUNOLOGIC; DIABETES MELLITUS, JUVENILE (blood); FLUORESCENT ANTIBODY TECHNIC; GUINEA PIGS; HUMAN; INSULIN (metabolism); ISLANDS OF LANGERHANS (immunology, metabolism); MICE; RADIOISOTOPES; RUBIDIUM.

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AMPHETAMINES (pharmacodynamics); ANIMAL; BEHAVIOR, ANIMAL (drug effects); DIABETES MELLITUS, EXPERIMENTAL (physiopathology); FEMALE; P-CHLOROAMPHETAMINE (pharmacodynamics); RATS; TRYPTOPHAN (pharmacodynamics); U.S. GOVT SUPPORTED, NON-N.I.H. ).

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AUTOPSY; BASEMENT MEMBRANE (pathology); DIABETIC NEPHROPATHIES (pathology); ENGLISH ABSTRACT; HUMAN.

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CIRCULATING PROINSULIN IN PATIENTS WITH MATURITY ONSET DIABETES. Mako ME, Starr JJ, Rubenstein AH *Am J Med* 63: 865-9, Dec 77 (Eng) DL/78JUN425

ADULT; AGED; ANTIGENS; BLOOD SUGAR (metabolism); COMPARATIVE STUDY; DIABETES MELLITUS (blood, diet therapy, drug therapy); FEMALE; HUMAN; INSULIN (blood, immunology); ISLANDS OF LANGERHANS (metabolism); MALE; MIDDLE AGE; PROINSULIN (blood); SULFONYLUREA COMPOUNDS (therapeutic use); U.S. GOVT SUPPORTED, N.I.H. ).

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[RESTORATION PROCESSES IN THE CELLS OF THE PANCREATIC ISLAND APPARATUS IN ALLOXAN DIABETIC RATS UNDER THE INFLUENCE OF RNA] Breslavskii AS, Maksimov SV, Lapygina LA, Magkaeva LB *Fiziol Zh* 24: 23-8, Jan-Feb 78 (Rus) DL/78JUN157

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CALCIUM ANTAGONISTS AND ISLET FUNCTION: VII. EFFECT OF CALCIUM DEPRIVATION. Malaise WJ, Hutton JC, Sener A, Levy J, Herchuelz A, Devis G, Somers G *J Membr Biol* 38: 193-208, 18 Jan 78 (Eng) DL/78JUN244

ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL; BIOLOGICAL TRANSPORT (drug effects); CALCIUM (metabolism, pharmacodynamics); GLUCOSE (metabolism, pharmacodynamics); INSULIN (secretion); ISLANDS OF LANGERHANS (metabolism, secretion); LACTATES (metabolism); MAGNESIUM (pharmacodynamics); RATS.

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[ACHIEVEMENTS OF SOVIET DIABETOLOGY] Vasiukova EA, Margolis MG, Malkovich VK *Klin Med (Mosk)* 55: 18-5, Dec 77 (Rus) DL/78JUN256

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THE PANCREAS: CHRONIC PANCREATITIS. Mallinson C *Br J Hosp Med* 18: 553-66, Dec 77 (Eng) [61 ref.] DL/78JUN110

ALCOHOLISM (complications); BODY WEIGHT; CALCINOSIS (complications); CHOLELITHIASIS (complications); CHRONIC DISEASE; DIABETES MELLITUS (etiology); DIET; DRAINAGE; FATTY LIVER (etiology); GASTRIC JUICE (secretion); HEMORRAGE; GASTROINTESTINAL (etiology); HUMAN; PAIN; PANCREATIC CYST (etiology); PANCREATIC JUICE (secretion); PANCREATITIS (complications, etiology, pathology, therapy); REVIEW.

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INSULIN SECRETION IN CHILDREN WITH GROWTH RETARDATION. Boscherini B, Finocchi G, Lostia O, Mancuso G, Montani P, Pasquino AM, Rezza E, Rocchio J, Taggi F, Zorretta D *Eur J Pediatr* 127: 21-6, 30 Dec 77 (Eng) DL/78JUN145

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THE ANALYSIS OF DECAY CURVES. Lafferty HH, Giddings AE, Mangnall D *Clin Sci Mol Med* 52: 97-101, Jan 77 (Eng) DL/78JUN139

## Manjon Garcia M

[CHANGES OF CARBOHYDRATE METABOLISM IN CHRONIC RENAL FAILURE] Pena Yanez A, Cerezo Morales S, Escobar Jimenez F, Manjon Garcia M, Lopez Luque A, Mora Lara J *Rev Clin Esp* 147: 489-94, 15 Dec 77 (Spa) DL/78JUN334

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SERUM LIPIDS IN TREATED DIABETIC CHILDREN AND THEIR FAMILIES. Mann JI, Hughson WG, Holman RR, Honour AJ, Thorogood M, Smith A, Baum JD *Clin Endocrinol (Oxf)* 8: 27-33, Jan 78 (Eng) DL/78JUN131

ADOLESCENCE; ADULT; AGED; BLOOD SUGAR (analysis); CHILD; CHOLESTEROL (blood); COMPARATIVE STUDY; DIABETES MELLITUS, JUVENILE (blood, complications, familial & genetic); FASTING; FEMALE; HUMAN; HYPERLIPIDEMIA, ESSENTIAL FAMILIAL (complications); MALE; MIDDLE AGE; TRIGLYCERIDES (blood).

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ESTABLISHMENT OF AN ALBINO SAND RAT (PSAMMOMYS OBESES COLONY AND COMPARISON WITH THE NATURAL COLOURED ANIMAL. Shaham Y, Lelyveld J, Marder U, Mendelsohn H, Paz G, Kraicer PF *Lab Anim* 12: 13-7, Jan 78 (Eng) DL/78JUN258

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[RADIOISOTOPE RENOGRAPHY AND KIDNEY SCANNING IN DIABETES MELLITUS] Liashchuk PM, Marega IN *Vrach Delo* 105-7, Jan 78 (Rus) DL/78JUN364

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## Margolis MT

[PATHOGENESIS OF DIABETIC RETINOPATHY AND ITS TREATMENT] Margolis MT, Istomyn MG *Oftalmol Zh* 32: 618-21, 14 Dec 77 (Rus) [42 ref.] DL/78JUN309  
ADOLESCENCE; ADULT; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS (physiopathology); DIABETIC RETINOPATHY (etiology, therapy); FEMALE; HUMAN; HYPERPIGMENTARISM (complications, therapy); HYPOPHYSECTOMY; MALE; MIDDLE AGE; PITUITARY GLAND, ANTERIOR (physiopathology); RADIOTHERAPY, HIGH ENERGY; REVIEW; SOMATOTROPIN RELEASE INHIBITING HORMONE (therapeutic use); SOMATOTROPIN (secretion).

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SYNTHESIS AND BIOLOGICAL ACTIVITY OF TWO DISULPHIDE BOND ISOMERS OF HUMAN INSULIN: [A7-A11,A6-B7-CYSTINE]-AND [A6-A7,A11-B7-CYSTINE]INSULIN (HUMAN). Sieber P, Eisler K, Kamber B, Riniker B, Rittel W, Marki F, de Gasparo M *Hoppe Seyler's Z Physiol Chem* 359: 113-23, Jan 78 (Eng) DL/78JUN194

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[RADIOISOTOPE STUDY OF THE CARDIOVASCULAR SYSTEM IN THYROTOXICOSIS AND DIABETES MELLITUS] Slavnov VN, Markov VV *Vrach Delo* 107-11, Jan 78 (Rus) DL/78JUN365

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[IMPORTANCE OF THE DETERMINATION OF PLASMA CHORIONIC SOMATOMAMOTROPIN IN HIGH-RISK PREGNANCY] Marsico S, Carbone M, Volpe A, Baviera G *Arch Orit Ginecol* 80: 10-23, Jan-Jun 75 (Ita) DL/78JUN477

ABORTION, THREATENED (blood); BIRTH WEIGHT; BLOOD GROUP INCOMPATIBILITY (blood); ENGLISH ABSTRACT; FEMALE; FETAL DISEASES (etiology); FETAL DISTRESS (etiology); HUMAN; INFANT, NEWBORN; PLACENTA DISORDERS (blood); PLACENTAL LACTOGEN (blood); PREGNANCY IN DIABETES (blood); PREGNANCY COMPLICATIONS (blood); PREGNANCY TOXEMIAS (blood); PREGNANCY; RADIOIMMUNOASSAY; RH-HR BLOOD-GROUP SYSTEM.

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ADULT; AMYLASES (metabolism); CREATININE (metabolism); FEMALE; GLUCAGON (diagnostic use, metabolism); HUMAN; MALE; MIDDLE AGE; PANCREATITIS (metabolism).

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LOSS OF GLUCAGON SUPPRESSION OF FEEDING AFTER VAGOTOMY IN RATS. Martin JR, Novin D, Vanderweele DA *Am J Physiol* 234: e314-18, Mar 78 (Eng) DL/78JUN436  
ANIMAL; FASTING; FEEDING BEHAVIOR (physiology); FEMALE; GLUCAGON (physiology); HEPATIC VEINS; INFUSIONS, PARENTERAL; LIVER GLYCOGEN (metabolism); MALE; PORTAL VEIN; RATS; STRESS (physiopathology); U.S. GOVT SUPPORTED, N.I.H.; VAGOTOMY (methods).

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SERUM HORMONES IN THE PERINATAL PIG AND THE EFFECT OF EXOGENOUS INSULIN ON BLOOD SUGARS. Herbein JH, Martin RJ, Griel LC, Kavanaugh JF *Growth* 41: 277-83, Dec 77 (Eng) DL/78JUN186

EFFECTS OF ZERANOL ON BLOOD METABOLITES AND HORMONES IN WETHER LAMBS. Olsen RF, Wangsness PJ, Martin RJ, Gahagan JH *J Anim Sci* 45: 1392-6, Dec 77 (Eng) DL/78JUN212

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[EFFECT OF ISOXISUPRINE ON VARIOUS ENDOCRINE AND METABOLIC PARAMETERS] Gragnoli G, Favilli R, Martinelli G, Tanganelli I, Palazzuoli V, Migliarese G *Boll Soc Ital Biol Sper* 53: 1549-55, 30 Sep 77 (Ita) DL/78JUN90

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DIAZOXIDE (therapeutic use); DIETARY PROTEINS; FENFLURAMINE (therapeutic use); FUROSEMIDE (therapeutic use); GLUCAGON; HUMAN; OBESITY (diet therapy, drug therapy); TRIIODOTHYRONINE (therapeutic use).

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[PHOTOCOAGULATION IN COMPLEX TREATMENT OF SEVERE FORMS OF DIABETIC RETINOPATHY] Linnik LA, Ganichenko IN, Maryshev IuA *Oftalmol Zh* 32: 595-600, 14 Dec 77 (Rus) DL/78JUN308

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PRIORITY CASES IN SCREENING FOR DIABETES MELLITUS AMONG OUTPATIENT ATTENDANTS. El-Ebrashy N, Mashaly M, Shahin H, Abdel-Aziz MT *J Egypt Med Assoc* 58: 611-9, 1975 (Eng) DL/78JUN223

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CONTRACTILITY AND ENERGETICS EFFECTS OF ETHANOL AND ISOPROTERENOL USING AN IMPROVED BIOLOGICALLY STABLE ISOLATED EJECTING RAT HEART SYSTEM. Segel LD, Woliner M, Miller RR, Amsterdam EA, Chacko KJ, Drake C, Stoll PJ, Mason DT *Res Commun Chem Pathol Pharmacol* 17: 555-73, Aug 77 (Eng) \*DL/78JUN82

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[DETERMINATION OF INSULINEMIA IN THE PRE AND POST-HEPATIC REGION IN SWINE] Innocenti P, Piattelli A, Caizzi N, Dignazio A, Materazzo D, Uccino S, Belcaro G, Gozzetti G *Boll Soc Ital Biol Sper* 53: 2171-3, 30 Nov 77 (Ita) DL/78JUN100

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CATABOLITE INACTIVATION OF THE GALACTOSE UPTAKE SYSTEM IN YEAST. Matern H, Holzer H *J Biol Chem* 252: 6399-402, 25 Sep 77 (Eng) \*DL/78JUN54  
CYCLOHEXIMIDE (pharmacodynamics); GALACTOSE (metabolism); GALACTOSEPHOSPHATE URIDYLTRANSFERASE (metabolism); GLUCOSE (pharmacodynamics); KINETICS; PHOSPHOGLUCOMUTASE (metabolism); PHOSPHOTRANSFERASES, ATP (metabolism); SACCHAROMYCES CEREVISIAE (drug effects, metabolism); URIDINE DIPHOSPHATE GLUCOSE EPIMERASE (metabolism).

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[CLINICAL STUDIES ON VITREOUS SURGERY. PART 2. RESULTS OF PARS PLANA VITRECTOMY ON SEVERE DIABETIC RETINOPATHIES (AUTHORS TRANSL.)] Matsui M, Tashiro T, Sato M *Nippon Ganka Gakkai Zasshi* 81: 1482-7, 10 Sep 77 (Jpn) DL/78JUN418

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ADULT; AGED; DIABETIC RETINOPATHY (surgery); ENGLISH ABSTRACT; FEMALE; HUMAN; MALE; MIDDLE AGE; POSTOPERATIVE COMPLICATIONS (poisoning); VITREOUS BODY (surgery).

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INSULIN RELEASING ACTIVITY OF GASTROINTESTINAL GLUCAGON-LIKE IMMUNOREACTIVE MATERIALS IN PERFUSED RAT PANCREAS. Tanaka R, Matsuyama T, Shima K, Sawazaki N, Tarui S, Kumahara Y *Endocrinol Jpn* 24: 575-9, Dec 77 (Eng) DL/78JUN144

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BLOOD SUGAR (analysis); CHILD; CHILD, PRESCHOOL; DIPHOSPHOGLYCERIC ACIDS (blood); ERYTHROCYTES (drug effects, metabolism); HUMAN; HYDROGEN-ION CONCENTRATION (physiology); INSULIN (pharmacodynamics).

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CHANGES OF GLUCOSE TOLERANCE AND BLOOD LIPID LEVEL IN WOMEN AS A RESULT OF ADMINISTRATION OF ORAL CONTRACEPTIVES] Zaripova ZKh, Kononova ES, Veshchilova TP, Mazhbitts IA *Vopr Okhr Materin Det* 22: 68-9, Oct 77 (Rus) DL/78JUN358

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LEVELS OF PLASMA CYCLIC AMP AND INSULIN IN CARDIAC SURGERY. Chiu RC, McArdle HA *J Thorac Cardiovasc Surg* 75: 286-9, Feb 78 (Eng) DL/78JUN263

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MAXIMIZING DIABETIC CONTROL IN CHILDREN: AN IMPROVED METHOD FOR MONITORING Fagan JE, McArthur RG *Postgrad Med* 63: 58-65, Feb 78 (Eng) DL/78JUN322

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ETHYL ALCOHOL BY THE ORAL ROUTE AS A SEDATIVE IN DENTISTRY. McCarthy FM, Hayden J Jr *J Am Dent Assoc* 96: 282-7, Feb 78 (Eng) DL/78JUN229

ADMINISTRATION, ORAL; ADULT; ALCOHOL DRINKING; ALCOHOL, ETHYL (administration & dosage, adverse effects, blood, metabolism); ALCOHOLIC INTOXICATION (blood); ALCOHOLISM (etiology); ANESTHESIA, DENTAL (methods); DRINKING BEHAVIOR; HUMAN; HYPOGLYCEMIA (chemically induced); LIVER (metabolism); SOCIAL BEHAVIOR.

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MECHANISM OF BARBITURIC-ACID PROTECTION AGAINST INHIBITION BY ALLOXAN OF GLUCOSE-INDUCED INSULIN RELEASE. Weaver DC, McDaniel ML, Lacy PE *Diabetes* 27: 71-7, Feb 78 (Eng) DL/78JUN165

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A HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY METHOD FOR HEMOGLOBIN A1C. Davis JE, McDonald JM, Jarrett L *Diabetes* 27: 102-7, Feb 78 (Eng) DL/78JUN160

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THE EFFECTS OF TOXIC AND NON-TOXIC SERUM PHENYTOIN LEVELS ON CARBOHYDRATE TOLERANCE AND INSULIN LEVELS. Callaghan N, Feely M, O'Callaghan M, Duggan B, McGarry J, Cramer B, Wheelan J, Selkdrup J *Acta Neurol Scand* 56: 563-71, Dec 77 (Eng) DL/78JUN402

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ADULT; AGE FACTORS; AGED; BLOOD VISCOSITY; DIABETES MELLITUS (complications); FEMALE; HEAD INJURIES (complications); HEMATOCRIT; HUMAN; HYPERGAMMAGLOBULINEMIA (complications); HYPERLIPEMIA (complications); HYPERTENSION (complications); IGA; LUNG DISEASES (complications); MALE; MIDDLE AGE; RETINAL VEIN; RISK; THROMBOSIS (etiology).

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MEASUREMENT OF THE RATE OF PROTEIN SYNTHESIS AND COMPARTMENTATION OF HEART PHENYLALANINE. McKee EE, Cheung JY, Rannels DE, Morgan HE *J Biol Chem* 253: 1030-40, 25 Feb 78 (Eng) DL/78JUN215

ANIMAL; CELL MEMBRANE (metabolism); INSULIN (pharmacodynamics); KINETICS; MATHEMATICS; MODELS, BIOLOGICAL; MUSCLE PROTEINS (biosynthesis); MYOCARDIUM (metabolism); PERFUSION; PHENYLALANINE (metabolism); RATS; RNA, TRANSFER (metabolism); TRANSLATION, GENETIC (drug effects); U.S. GOVT SUPPORTED, N.I.H. ]

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DIABETES IN IDENTICAL TRIPLETS. McKendrick MW, Fitzgerald MG *Br Med J* 1: 482, 25 Feb 78 (Eng) DL/78JUN116

DIABETES MELLITUS (familial & genetic); HUMAN; MIDDLE AGE; TRIPLETS.

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ADENOMA (complications, secretion); ADULT; CASE REPORT; CYTOPLASMIC GRANULES (ultrastructure); GALACTORRHOEA (complications); HUMAN; HYPOGONADISM (complications); HYPOPHYSECTOMY; IMPOTENCE (complications); INSULIN (diagnostic use); LACTATION DISORDERS (complications); MALE; PITUITARY NEOPLASMS (complications, secretion); PROLACTIN (blood, secretion); SEX HORMONES (blood); THYROTROPIN RELEASING HORMONE (diagnostic use); U.S. GOVT SUPPORTED, N.I.H. ]

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THYROTROPIN RECEPTORS IN ADIPOSE TISSUE, RETRO-ORBITAL TISSUE AND LYMPHOCYTES. Davies TF, Teng CS, McLachlan SM, Smith BR, Hall R *Mol Cell Endocrinol* 9: 303-10, Jan 78 (Eng) DL/78JUN159

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EFFECT OF EXPERIMENTAL DIABETES ON ORNITHINE DECARBOXYLASE ACTIVITY OF RAT TISSUES. Sochor M, Zaheer Baquer N, Hotherhall JS, McLean P *Biochem Biophys Res Commun* 80: 533-9, 14 Feb 78 (Eng) DL/78JUN483

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ADIPOSE TISSUE: CONTRIBUTIONS OF NATURE AND NURTURE TO THE OBESITY OF AN OBESE MUTANT MOUSE (OBOB). Ashwell M, Meade CJ, Medawar PM, Sower C *Proc Nutr Soc* 36: 16a, May 77 (Eng) \*DL/78JUN78

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[DO SORBIT AND FRUCTOSE AGGRAVATE THE DIABETIC LENTO- AND NEUROPATHY] Mehnert H *Dtsch Med Wochenschr* 103: 229-31, 10 Feb 78 (Ger) DL/78JUN143

AGE FACTORS; BLOOD SUGAR (analysis); CATARACT (chemically induced); DIABETIC DIET (adverse effects); DIABETIC NEUROPATHIES (chemically induced); FRUCTOSE (adverse effects, metabolism); HUMAN; SORBITOL (adverse effects, metabolism).

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EFFECTS OF HORMONES ON THE SYNTHESIS OF ALPHA 1 (ACUTE-PHASE) GLYCOPROTEIN IN ISOLATED RAT HEPATOCYTES. Jeejeebhoy JN, Ho J, Mehra R, Jeejeebhoy J, Bruce-Robertson A *Biochem J* 168: 347-52, 15 Dec 77 (Eng) DL/78JUN478



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ALKALINE PHOSPHATASE (isolation & purification, metabolism); CATIONS, DIVALENT; ESCHERICHIA COLI (enzymology); GLYCOGEN PHOSPHORYLASE; GLYCOGEN SYNTHETASE; GLYCOGEN (pharmacodynamics); KINETICS; PHOSPHOPROTEINS (metabolism); PHOSPHORYLASE KINASE; SODIUM CHLORIDE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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EFFECT OF INSULIN IN VITRO ON THE ISOLATED, PERFUSED ALLOXAN-DIABETIC RAT LIVER. Lombardo YB, Hron WT, Menahan LA *Diabetologia* 14: 47-51, 14 Jan 78 (Eng) DL/78JUN177

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ESTABLISHMENT OF AN ALBINO SAND RAT (PSAMMOMYS OBEUS) COLONY AND COMPARISON WITH THE NATURAL COLOURED ANIMAL. Shaham Y, Lelyveld J, Marder U, Mendelsohn H, Paz G, Kraicer PF *Lab Anim* 12: 13-7, Jan 78 (Eng) DL/78JUN258

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UPTAKE AND PHOSPHORYLATION OF 2-DEOXY-D-GLUCOSE BY WILD TYPE AND RESPIRATION-DEFICIENT BAKERS YEAST. Meredith SA, Romano AH *Biochim Biophys Acta* 497: 745-59, 26 May 77 (Eng) \*DL/78JUN10  
AEROBIOSIS; BIOLOGICAL TRANSPORT, ACTIVE; DEOXY SUGARS (metabolism); DEOXYGLUCOSE (metabolism); GLUCOSE (metabolism, pharmacodynamics); HEXOKINASE (metabolism); KINETICS; METHYLGLUCOSIDES (metabolism); OXYGEN CONSUMPTION; SACCHAROMYCES CEREVISIAE (drug effects, metabolism); SORBOSE (metabolism); STRUCTURE-ACTIVITY RELATIONSHIP; SUGAR PHOSPHATES (biosynthesis); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. ).

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MANAGEMENT AND OUTCOME OF PREGNANCY IN DIABETES MELLITUS, CLASSES B TO R. Gabbe SG, Mestman JH, Freeman RK, Goebelsmann UT, Lowensohn RI, Nochimson D, Cetrulo C, Quilligan EJ *Am J Obstet Gynecol* 129: 723-32, 1 Dec 77 (Eng) DL/78JUN429

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**Oestrich C**

QUANTITATIVE VITREOUS FLUOROPHOTOMETRY. A SENSITIVE TECHNIQUE FOR MEASURING EARLY BREAKDOWN OF THE BLOOD-RETINAL BARRIER IN YOUNG DIABETIC PATIENTS. Waltman SR, Oestrich C, Krupin T, Hanish S, Ratzan S, Santiago J, Kilo C *Diabetes* 27: 85-7, Feb 78 (Eng) DL/78JUN167

**Ogata E**

CA2+ REQUIREMENT IN ATP-INDUCED ACTIVATION OF UNCOUPLED OXIDATION OF SUCCINATE IN ISOLATED RAT-LIVER MITOCHONDRIA. Ezawa I, Ogata E *Eur J Biochem* 77: 427-35, 1 Aug 77 (Eng) \*DL/78JUN23

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CONSIDERATIONS IN NEONATES WITH INTRAUTERINE GROWTH RETARDATION. Oh W *Clin Obstet Gynecol* 20: 991-1003, Dec 77 (Eng) DL/78JUN137

ASPHYXIA NEONATORUM (etiology); ASPHYXIA (etiology); ASPIRATION; BLOOD SUGAR (metabolism); BLOOD VISCOSITY; BRAIN DISEASES (etiology); FEMALE; FETAL DISEASES (etiology); FETAL GROWTH RETARDATION (complications, etiology); HUMAN; HYPOCALCEMIA (etiology); HYPOGLYCEMIA (etiology); INFANT, NEWBORN; INFANT, NEWBORN, DISEASES; KIDNEY DISEASES (etiology); MECONIUM; POLYCYTHEMIA (etiology); PREGNANCY; PROGNOSIS; SYNDROME.

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ISOLATION AND CHARACTERIZATION OF GLYCOPHINGOLIPIDS IN PIG ADIPOSE TISSUE. Ohashi M, Yamakawa T *J Biochem (Tokyo)* 81: 1675-90, Jun 77 (Eng) \*DL/78JUN49

ADIPOSE TISSUE (analysis); ANIMAL; CARBOHYDRATES (analysis); CERAMIDES (analysis); CHROMATOGRAPHY, GAS; GLYCOLIPIDS (analysis); GLYCOPHINGOLIPIDS (isolation & purification); SPECTRUM ANALYSIS, MASS; SWINE.

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WOUND HEALING—SOME BIOCHEMICAL ASPECTS. PP. 274-87. Ohkawara A, Aoyagi T In: Seiji M, Bernstein IA, ed. *Biochemistry of cutaneous epidermal differentiation*. Baltimore, Univ Park Press, 1977. WR 102 J35b 1976. (Eng) \*DL/78JUN59

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ANIMAL; DNA (metabolism); GLUCOSEPHOSPHATE DEHYDROGENASE (metabolism); GLYCOGEN PHOSPHORYLASE (metabolism); GLYCOGEN SYNTHETASE (metabolism); GLYCOGEN (metabolism); IN VITRO; ISOCITRATE DEHYDROGENASE (metabolism); LACTATE DEHYDROGENASE (metabolism); MITOSIS; MONOGRAPH (mortality); SKIN (cytology, enzymology, metabolism); SWINE; TIME FACTORS; WOUND HEALING.

## Okimoto K

HLA AND GRAVES DISEASE OR DIABETES MELLITUS IN JAPAN [LETTER] Sasazuki T, Kohno Y, Iwamoto I, Kosaka K, Okimoto K, Maruyama H, Ishiba S, Konishi J, Takeda Y, Naito S *N Engl J Med* 298: 630-1, 16 Mar 78 (Eng) DL/78JUN296

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STUDIES ON ADRENALINE-INDUCED LIPOLYSIS IN ARTIFICIAL LIPID MICELLES. Okuda H, Takeda E, Saito Y, Matsuoka N *J Biochem (Tokyo)* 81: 1633-7, Jun 77 (Eng) \*DL/78JUN48

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (cytology); COLLOIDS; DIBUTYRYL CYCLIC AMP; DIGLYCERIDES; EPINEPHRINE; FATTY ACIDS, NONESTERIFIED; GLYCERIDES; HYDROGEN-ION CONCENTRATION (physiology); KINETICS; LIPASE (metabolism); MICELLES; PHOSPHATIDYLCHOLINES; PHOSPHOLIPASE (metabolism); THEOPHYLLINE; TRIOLEIN.

## Oliva A

ELECTROGUSTOMETRIC THRESHOLD IN DIABETE AND CHRONIC ETHYLISM. SURVEY ON 230 PATIENTS (AUTHORS TRANSL.) Le Mouel C, Oliva A, Giry P, Angot A, Renon P *Ann Otolaryngol Chir Cervicofac* 94: 715-24, Dec 77 (Fre) DL/78JUN457

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EFFECTS OF ZERANOL ON BLOOD METABOLITES AND HORMONES IN WETHER LAMBS. Olsen RF, Wangness PJ, Martin RJ, Gahagan JH *J Anim Sci* 45: 1392-6, Dec 77 (Eng) DL/78JUN212

ANIMAL; ARGININE (pharmacodynamics); BLOOD SUGAR (analysis); BLOOD UREA NITROGEN; INJECTIONS, INTRAVENOUS; INSULIN (blood); MALE; RESORCINOLS (pharmacodynamics); SHEEP (blood); SOMATOTROPIN (blood); ZERANOL (administration & dosage, pharmacodynamics).

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KININASE INHIBITION BY GLUCAGON. Olsen UB *Acta Endocrinol (Kbh)* 87: 552-6, Mar 78 (Eng) DL/78JUN398

ANIMAL; BRADYKININ (metabolism); CARBOXYPEPTIDASES (antagonists & inhibitors); DOGS; ERYTHROCYTES (enzymology); GLUCAGON (pharmacodynamics); KALLIKREIN (urine); KIDNEY (enzymology); KININASE I (antagonists & inhibitors, blood); MICROSOMES (enzymology).

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ABNORMALITIES IN THE REGULATION OF GROWTH HORMONE IN CHRONIC RENAL FAILURE. Ramirez G, O'Neill WM, Bloomer HA, Jubiz W *Arch Intern Med* 138: 267-71, Feb 78 (Eng) DL/78JUN465

## Opavsky J

INTERACTION OF ANTIEPILEPTICS [AUTHORS TRANSL.] Opavsky J *Cas Lek Cesk* 116: 1550-3, 16 Dec 77 (Cze) [34 ref.] DL/78JUN124

ACETAZOLAMIDE; ANTICOAGULANTS; ANTICONVULSANTS; ANTIDEPRESSIVE AGENTS, TRICYCLIC; BARBITURATES; CHLORAMPHENICOL; CONTRACEPTIVES, ORAL; DRUG INTERACTIONS; ENGLISH ABSTRACT; HUMAN; HYPOGLYCEMIC AGENTS; PHENOTHIAZINES; RAUWOLFIA ALKALOIDS; REVIEW.

## Orci L

PERTURBATION OF THE ADIPOSE CELL PLASMA MEMBRANE IN OBSE (OB/OB) MICE. Carpentier JL, Perrelet A, Orci L *Lab Invest* 37: 260-4, Sep 77 (Eng) \*DL/78JUN68

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VITRECTOMY, TECHNIQS, INITIAL RESULTS] Ourgaud AG, Chagnon AM *Bull Soc Ophthalmol Fr* 77: 329-32, Mar 77 (Fre) DL/78JUN129

DIABETIC RETINOPATHY (surgery); ENGLISH ABSTRACT; EYE INJURIES (surgery); HUMAN; METHODS; VITREOUS BODY (surgery).

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DIABETIC NEPHROPATHY (AUTHORS TRANSL.) Tojo S, Oyama T, Shishido H, Suzuki H *Nippon Jinzo Gakkai Shi* 19: 840-3, Oct 77 (Jpn) DL/78JUN249

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INSULIN-INDUCED ATTENUATION OF GLUCOSE-STIMULATED GASTRIC INHIBITORY POLYPEPTIDE SECRETION. Sirinek KR, Pace WG, Crockett SE, Odoorio TM, Mazzaferri EL, Cataland S *Am J Surg* 135: 151-5, Feb 78 (Eng) DL/78JUN438

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LOW-DOSE VERSUS HIGH-DOSE INSULIN REGIMENS IN THE MANAGEMENT OF UNCONTROLLED DIABETES. A SURVEY. Padilla AJ, Loeb JN *Am J Med* 63: 843-8, Dec 77 (Eng) [52 ref.] DL/78JUN424

ANTIBODIES; BLOOD SUGAR (metabolism); BRAIN EDEMA (etiology); DIABETES

MELLITUS (drug therapy); DOSE-RESPONSE RELATIONSHIP, DRUG; HUMAN; HYPOGLYCEMIA (etiology); HYPOKALEMIA (prevention & control); INSULIN RESISTANCE; INSULIN (administration & dosage, immunology, physiology, toxicity, therapeutic use); KETOSIS, DIABETIC (complications); KINETICS; REVIEW; U.S. GOVT SUPPORTED, N.I.H. ).

## Pagano G

INSULIN RECEPTORS IN ADIPOCYTES OF NON-DIABETIC AND DIABETIC SUBJECTS. PRELIMINARY REPORT. Pagano G, Cassader M, Lenti G *Acta Diabetol Lat* 14: 164-9, May-Aug 77 (Eng) DL/78JUN387

ADIPOSE TISSUE (cytology, pathology); DIABETES MELLITUS (pathology); FEMALE; HUMAN; KINETICS; MALE; RECEPTORS, INSULIN (physiology).

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INFANTILE DIABETES MELLITUS, CURRENT PROBLEMS OF PREVENTION, EARLY DIAGNOSIS AND TREATMENT] Baraton S, Cerutti F, Pagliari R, Piga A, Riva C, Sacchetti C, Altare F *Minerva Pediatr* 29: 2409-24, 29 Dec 77 (Ita) DL/78JUN292

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EFFECT OF ISOXISUPRINE ON VARIOUS ENDOCRINE AND METABOLIC PARAMETERS] Gragnoli G, Favilli R, Martinelli G, Tanganelli I, Palazzuoli V, Migliarese G *Boll Soc Ital Biol Sper* 53: 1549-55, 30 Sep 77 (Ita) DL/78JUN90

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MONITORING THE SERUM AND URINARY ZINC LEVELS IN DIABETES MELLITUS] Svoboda P, Palicka V *Vnitř Lek* 24: 79-84, Jan 78 (Cze) DL/78JUN355

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RELATIONSHIP BETWEEN THE SYSTEMS OF ACTIVATION OF FATTY ACIDS AND ADEMEINE NUCLEOTIDE TRANSLUCASE IN THE MITOCHONDRIA] Konstantinov IuM, Liakhovich VV, Panov AV *Biull Eksp Biol Med* 82: 1200-2, Oct 76 (Rus) \*DL/78JUN17

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PROGNOSIS OF DIABETES MELLITUS AFTER AN EARLY DIAGNOSIS BY MEANS OF GLUCOSURIA SCREENING. RESULTS OF A 10 YEAR COURSE CONTROL] Panzram G, Ruttman B *Schweiz Med Wochenschr* 108: 221-5, 18 Feb 78 (Ger) DL/78JUN340

DIABETES MELLITUS (diet therapy, diagnosis); ENGLISH ABSTRACT; GLYCOSURIA (diagnosis); HUMAN; HYPERGLYCEMIA (diagnosis); MULTIPHASIC SCREENING; PROGNOSIS; RISK.

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CLINICAL RESEARCH AND PRACTICAL MEDICINE. SIGNIFICANCE OF CLINICAL RESEARCH FOR PRACTICAL MEDICINE] Papenberg J *ZFA (Stuttgart)* 54: 60-2, 20 Jan 78 (Ger) DL/78JUN375

ADULT; ALCOHOLIC INTOXICATION (complications); ANIMAL; CHILD; CLINICAL RESEARCH; GLUCOSEPHOSPHATASE DEFICIENCY (etiology); GUINEA PIGS; HUMAN; HYPOGLYCEMIA (etiology); INTERNAL MEDICINE; MALE; RESEARCH; TRIGLYCERIDES (blood).

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MORTALITY AND MORBIDITY IN NEWBORNS OF INSULIN DEPENDENT DIABETIC MOTHERS. Pardou A, Dodion J, Loeb H *Acta*



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DL/78JUN404

ADOLESCENCE; ADULT; FEMALE; FETAL DEATH (etiology); HUMAN; INFANT MORTALITY; INFANT, NEWBORN; INFANT, NEWBORN, DISEASES (etiology); INSULIN (therapeutic use); PREGNANCY IN DIABETES (complications, drug therapy); PREGNANCY; RETROSPECTIVE STUDIES.

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REACTOGENICITY AND IMMUNOGENICITY OF BIVALENT INFLUENZA A AND MONOVALENT INFLUENZA B VIRUS VACCINES IN HIGH-RISK CHILDREN. Allison JE, Glezen WP, Taber LH, Paredes A, Webster RG *J Infect Dis* 136 suppl: s672-6, Dec 77 (Eng)  
DL/78JUN232

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NORADRENALINE REVERSAL IN CANINE SUBCUTANEOUS ADIPOSE TISSUE. Parker RE *Eur J Pharmacol* 45: 69-72, 1 Sep 77 (Eng)  
\*DL/78JUN25

ADIPOSE TISSUE (drug effects, innervation); ANIMAL; DOGS; ELECTRIC STIMULATION; FEMALE; INJECTIONS, INTRA-ARTERIAL; NOREPINEPHRINE (administration & dosage, pharmacodynamics); SYMPATHETIC NERVOUS SYSTEM (drug effects); TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

# Pasquino AM

INSULIN SECRETION IN CHILDREN WITH GROWTH RETARDATION. Boscherini B, Finocchi G, Lostia O, Mancuso G, Montani P, Pasquino AM, Rezza E, Rocchio J, Taggi F, Zorretta D *Eur J Pediatr* 127: 21-6, 30 Dec 77 (Eng)  
DL/78JUN145

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INDUCTION OF TWO TRANSFORMATION-SENSITIVE MEMBRANE POLYPEPTIDES IN NORMAL FIBROBLASTS BY A BLOCK IN GLYCOPROTEIN SYNTHESIS OR GLUCOSE DEPRIVATION. Pousyssegur J, Shiu RP, Pastan I *Cell* 11: 941-7, Aug 77 (Eng) \*DL/78JUN19

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ESTABLISHMENT OF AN ALBINO SAND RAT (PSAMMOMYS OBEUS COLONY AND COMPARISON WITH THE NATURAL COLOURED ANIMAL. Shaham Y, Lelyveld J, Marder U, Mendelsohn H, Paz G, Kraicer PF *Lab Anim* 12: 13-7, Jan 78 (Eng) DL/78JUN258

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[CLINICAL SIGNS AND ETIOLOGICAL ASPECTS OF METABOLIC ENCEPHALOPATHIES EXCLUDING LIVER ENCEPHALOPATHY AND REALIMENTATION SYNDROME] Francois G, Gouin F, Pedrant G *Ann Anesthesiol Fr* 18: 953-65, 1977 (Fre) [106 ref.] DL/78JUN449

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VIABILITY OF THE ISLETS OF LANGERHANS AFTER WARM ISCHEMIA AS JUDGED BY ISOLOGOUS TRANSPLANTATION. Henriksson C, Claes G, Pehrsson NG *Acta Chir Scand* 143: 323-8, 1977 (Eng) DL/78JUN379

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[CONTINUOUS INTRAVENOUS INFUSION OF SMALL DOSES OF INSULIN IN THE TREATMENT OF DIABETIC COMA] Pelosi RM, Dias CS, Rosenberg FE, Rodrigues HF, Alves E, Branco NL, Reis LC *AMB* 23: 361-4, Oct 77 (Por)  
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ADOLESCENCE; ADULT; CHILD; CHILD, PRESCHOOL; DIABETIC COMA (drug therapy); ENGLISH ABSTRACT; EVALUATION STUDIES; FEMALE; HUMAN; INJECTIONS, INTRAVENOUS (methods); INSULIN

(administration & dosage, therapeutic use); MALE.

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[CHANGES OF CARBOHYDRATE METABOLISM IN CHRONIC RENAL FAILURE] Pena Yanez A, Cerezo Morales S, Escobar Jimenez F, Manjon Garcia M, Lopez Luque A, Mora Lara J *Rev Clin Esp* 147: 489-94, 15 Dec 77 (Spa)  
DL/78JUN334

ADOLESCENCE; ADULT; CARBOHYDRATES (metabolism); CHILD; COMPARATIVE STUDY; DIABETES MELLITUS (metabolism); ENGLISH ABSTRACT; FEMALE; HUMAN; KIDNEY FAILURE, CHRONIC (metabolism); MALE; MIDDLE AGE.

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SYSTEMIC FACTORS CONTRIBUTORY TO RETINAL VEIN OCCLUSION. McGrath MA, Wechsler F, Hunyor AB, Penny R *Arch Intern Med* 138: 216-20, Feb 78 (Eng) DL/78JUN464

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[CHANGES IN THE BLOOD SUGAR, SERUM INSULIN, CORTISOL AND GROWTH HORMONE LEVELS IN BRAIN INJURIES] Pentelnyi T, Kammerer L, Stutzel M, Peter F *Magy Traumatol Orthop* 21: 20-5, 1978 (Hun)  
DL/78JUN264

BLOOD SUGAR (analysis); BRAIN INJURIES, ACUTE (blood, mortality); COMA (blood); HUMAN; HYDROCORTISONE (blood); INSULIN (blood); SOMATOTROPIN (blood).

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[SOME EXPERIENCE IN THE TREATMENT OF THE VASCULAR DISEASES OF THE RETINA BY RUBY LASER (AUTHORS TRANSL)] Cupak K, Laktic N, Pentz A *Lijek Vjesn* 99: 659-62, Nov 77 (Ser) DL/78JUN274

# Perdue JF

THE EFFECT OF MACROFIXATION ON DEREPPRESSED SUGAR TRANSPORT SYSTEMS OF CHICK EMBRYO FIBROBLASTS. Phillips ER, Raizada MK, Perdue JF *Exp Cell Res* 108: 239-43, Sep 77 (Eng)  
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INVOLVEMENT OF MEMBRANE SULFHYDRYLS IN THE ACTIVATION AND MAINTENANCE OF NUTRIENT TRANSPORT IN CHICK EMBRYO FIBROBLASTS. Smith-Johannsen H, Perdue JF, Ramjessingh M, Kahlenberg A *J Supramol Struct* 7: 37-48, 1977 (Eng) DL/78JUN262

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PERTURBATION OF THE ADIPOSE CELL PLASMA MEMBRANE IN OBESE (OB/OB) MICE. Carpentier JL, Perrelet A, Orci L *Lab Invest* 37: 260-4, Sep 77 (Eng) \*DL/78JUN68

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EFFECT OF CHRONIC PENTAGASTRIN, CHOLECYSTOKININ, AND SECRETIN ON PANCREAS OF RATS. Petersen H, Solomon T, Grossman MI *Am J Physiol* 234: e286-93, Mar 78 (Eng) DL/78JUN434

ANIMAL; BICARBONATES (metabolism); BODY WEIGHT (drug effects); CHOLECYSTOKININ (administration & dosage, pharmacodynamics); DUODENUM (drug effects); GASTRIC MUCOSA (drug effects); INJECTIONS, SUBCUTANEOUS; INTESTINAL MUCOSA (drug effects); ISLANDS OF LANGERHANS (drug effects); MALE; ORGAN

WEIGHT (drug effects); PANCREAS (anatomy & histology, drug effects, metabolism); PENTAGASTRIN (administration & dosage, pharmacodynamics); RATS; SECRETIN (administration & dosage, pharmacodynamics); U.S. GOVT SUPPORTED, NON-N.I.H. ).

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PLATELET AGGREGATION IN DIABETES MELLITUS. Petersen HD, Gormsen J *Acta Med Scand* 203: 125-30, 1978 (Eng) DL/78JUN412

ADENOSINE DIPHOSPHATE (blood); ADULT; AGED; BLOOD SUGAR (analysis); CREATININE (blood); DIABETES MELLITUS (blood); EPINEPHRINE (blood); FEMALE; HEMATOCRIT; HUMAN; HYDROXYBUTYRATES (blood); MALE; MIDDLE AGE; PLATELET AGGREGATION.

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DIABETES IN PREGNANCY: A REVIEW. Adams CM, Petersen LP *SD J Med* 31: 5-12, Jan 78 (Eng) DL/78JUN342

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BINDING OF CYTOCHALASIN B TO HEXOSE TRANSPORT SITES ON HUMAN SPERMATOZOEA AND INHIBITION OF BINDING BY PURINES. Peterson RN, Bundman D, Freund M *Biol Reprod* 17: 198-206, Sep 77 (Eng)  
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ADENOSINE (pharmacodynamics); BINDING, COMPETITIVE (drug effects); BIOLOGICAL TRANSPORT (drug effects); CELL MEMBRANE (drug effects, metabolism); CYTOCHALASIN B (antagonists & inhibitors, metabolism); DOSE-RESPONSE RELATIONSHIP, DRUG ); FRUCTOSE (metabolism); GLUCOSE (metabolism); HEXOSES (metabolism); HUMAN; MALE; PURINES (pharmacodynamics); SPERM MOTILITY (drug effects); SPERMATOZOA (metabolism); THEOPHYLLINE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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[PULMONARY TUBERCULOSIS AND DIABETES MELLITUS] Goldshtein VD, Petrushka ZN, Shukailova VT *Klin Med (Mosk)* 55: 44-9, Dec 77 (Rus) DL/78JUN257

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EFFECT OF GLUCAGON AND BLOOD TRANSFUSION ON LIVER METABOLISM IN HEMORRHAGIC SHOCK. Lindberg B, Haljamaa H, Jonsson O, Pettersson S *Ann Surg* 187: 103-9, Feb 78 (Eng) DL/78JUN462

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[CLINICAL EXPERIENCES WITH GLIQUIDON] Schwedes U, Althoff P, Happ J, Petzoldt R, Usadel KH, Beyer J, Schoffling K *Med Welt* 29: 191-6, 3 Feb 78 (Ger) DL/78JUN280

# Pezzarossa A

[EFFECT OF GLUCOSE-1-PHOSPHATE ON THE INSULIN SECRETION OF THE ISOLATED AND PERFUSED RAT PANCREAS] Butturini U, Pezzarossa A, Banchini E, Coscelli C *Boll Soc Ital Biol Sper* 53: 1742-8, 30 Oct 77 (Ita) DL/78JUN93

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[HUMAN C-PEPTIDE. PART III: DYNAMICS OF SECRETION OF BETA-CELLS IN ADULT DIABETICS FOLLOWING GLIBENCLAMIDE-GLUCOSE I.V. (HUMAN C-PEPTIDE III) (AUTHORS TRANSL)] Beischer W, Raptis S, Keller L, Maas M, Beischer B, Feilen K, Pfeiffer EF *Klin Wochenschr* 56: 111-20, 1 Feb 78 (Ger) DL/78JUN253

# Phillips ER

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### Piattelli A

[DETERMINATION OF INSULINEMIA IN THE PRE AND POST-HEPATIC REGION IN SWINE] Innocenti P, Piattelli A, Caizzi N, Dignazio A, Materazzo D, Uccino S, Belcaro G, Gozzetti G *Boll Soc Ital Biol Sper* 53: 2171-3, 30 Nov 77 (Ita) DL/78JUN100

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MULTIPLE TRANSPLANTATION OF ISLETS OF LANGERHANS. Rumpf KD, Lohlein D, Pichlmayr *Eur Surg Res* 9: 403-10, 1977 (Eng) DL/78JUN149

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[INFANTILE DIABETES MELLITUS, CURRENT PROBLEMS OF PREVENTION, EARLY DIAGNOSIS AND TREATMENT] Baraton S, Cerutti F, Pagliero R, Piga A, Riva C, Sacchetti C, Altare F *Minerva Pediatr* 29: 2409-24, 29 Dec 77 (Ita) DL/78JUN292

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EPINEPHRINE-INDUCED CYCLIC AMP PRODUCTION AND VASOCONSTRICTION IN THE NONCYCLICALLY PERFUSED RAT HINDLIMB; A POSSIBLE ROLE FOR INSULIN. Rushakoff RJ, Lewis SB, Schultz TA, Kaplan RA, Davis JL, Pilkis SJ, Ho RJ, Wallin JD *Life Sci* 22: 61-5, Jan 78 (Eng) DL/78JUN279

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[TOPOGRAPHIC STUDY OF LIPID EXUDATES IN DIABETIC PATIENTS AND THERAPEUTIC CONSIDERATIONS] Grange JD, Bonnet M, Pingault C *Bull Soc Ophthalmol Fr* 77: 275-7, Mar 77 (Fre) DL/78JUN127

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HYPOPHYSGONADAL FUNCTION IN THE DIABETIC CHILD. Cicognani A, Zappulla F, Bernardi F, Capelli M, Mazzanti L, Turchi S, Radetti G, Pirazzoli P, Cacciari E *Acta Paediatr Scand* 67: 151-5, Mar 78 (Eng) DL/78JUN408

### Pirnay F

OXIDATION OF AN EXOGENOUS GLUCOSE LOAD USING NATURALLY LABELLED 13C-GLUCOSE. EFFECT OF BUTYLBIGUANIDE THERAPY IN OBESE MILDLY DIABETIC SUBJECTS. Lefebvre P, Luyckx A, Mosora F, Lacroix M, Pirnay F *Diabetologia* 14: 39-45, 14 Jan 78 (Eng) DL/78JUN176

### Pitzurra M

[LYSOZYME ACTIVITY IN SERUM AND SKIN OF DIABETICS] Binazzi M, Boncio L, Marconi P, Pitzurra M *Boll Soc Ital Biol Sper* 53: 1587-93, 30 Sep 77 (Ita) DL/78JUN91

### Pilego JA

THE EFFECT OF TEMPERATURE ON THE ACTIVITY OF THE ADENYLATE CYCLASE SYSTEM OF LIVER PLASMA MEMBRANES. Pilego JA, Rubalcava B *Biochem Biophys Res Commun* 80: 609-15, 14 Feb 78 (Eng) DL/78JUN484

ADENYL CYCLASE (metabolism); CELL MEMBRANE (enzymology); ENZYME ACTIVATION; FLUORIDES (pharmacodynamics); GLUCAGON (pharmacodynamics); GUANYLYL IMIDODIPHOSPHATE (pharmacodynamics);

KINETICS; LIVER (enzymology, ultrastructure); TEMPERATURE.

### Plopper CG

ALTERATIONS IN GRANULAR (TYPE II) PNEUMOCYTE ULTRASTRUCTURE BY STREPTOZOTOCIN-INDUCED DIABETES IN THE RAT. Plopper CG, Morishige WK *Lab Invest* 38: 143-8, Feb 78 (Eng) DL/78JUN260

ANIMAL; BASEMENT MEMBRANE (ultrastructure); DIABETES MELLITUS, EXPERIMENTAL (drug therapy, pathology); ENDOPLASMIC RETICULUM (ultrastructure); GOLGI APPARATUS (ultrastructure); INSULIN (therapeutic use); LUNG (ultrastructure); MALE; MITOCHONDRIA (ultrastructure); ORGANOIDS (ultrastructure); RATS; U.S. GOVT SUPPORTED, N.I.H. ).

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HYMENOLEPIS DIMINUTA: UNSTIRRED LAYER THICKNESS AND EFFECTS OF ACTIVE AND PASSIVE TRANSPORT KINETICS. Podesta RB *Exp Parasitol* 43: 12-24, Oct 77 (Eng) \*DL/78JUN28

ALANINE (metabolism); ANIMAL; BIOLOGICAL TRANSPORT; BIOLOGICAL TRANSPORT, ACTIVE; CESTODA (metabolism); GALACTOSE (metabolism); GLUCOSE (metabolism); HYMENOLEPIS (metabolism); MODELS, BIOLOGICAL; WATER.

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ACUTE DISEASE; ADULT; AGED; CLINICAL RESEARCH; DRUG EVALUATION; DRUG THERAPY, COMBINATION; ENGLISH ABSTRACT; FEMALE; GLUCAGON (therapeutic use); HEART FAILURE, CONGESTIVE (drug therapy); HEART RATE (drug effects); HEMODYNAMICS (drug effects); HUMAN; INFUSIONS, PARENTERAL; MALE; MIDDLE AGE; MYOCARDIAL INFARCT (complications, drug therapy); STROPHANTHINS (therapeutic use); TIME FACTORS.

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ADENOSINE CYCLIC-3,5-MONOPHOSPHATE (metabolism); ANIMAL; BLOOD PRESSURE (drug effects); COMPARATIVE STUDY; EPINEPHRINE (pharmacodynamics); HINDLIMB (metabolism); INSULIN (pharmacodynamics); MALE; PERFUSION; PHENTOLAMINE (pharmacodynamics); PROPRANOLOL (pharmacodynamics); RATS; U.S. GOVT SUPPORTED, NON-N.I.H.; VASOCONSTRICTION (drug effects).

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**Rygaard J**

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ANIMAL; CARBOHYDRATES (metabolism); ENGLISH ABSTRACT; FEMALE; GLYCOGEN (metabolism); GLYCOLYSIS; HYPERGLYCEMIA (metabolism); LIPIDS (metabolism); LIVER GLYCOGEN (metabolism); LIVER (metabolism); MALE; MYOCARDIUM (metabolism); RABBITS; RESTRAINT, PHYSICAL; SUCROSE (administration & dosage, metabolism); TIME FACTORS.

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KINETICS; PLATELET AGGREGATION (drug effects); PROSTAGLANDINS (pharmacodynamics); PROSTAGLANDINS (pharmacodynamics); SEROTONIN (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ANTIGENIC DETERMINANTS; DIABETES MELLITUS (familial & genetic, immunology); GOITER, EXOPHTHALMIC (familial & genetic, immunology); HUMAN; HL-A ANTIGENS; LINKAGE (GENETICS); MONGOLOID RACE.

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ADOLESCENCE; ADULT; AGE FACTORS; AGED; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS (drug therapy, familial & genetic, occurrence); ENGLISH ABSTRACT; FEMALE; GERMANY, EAST; HUMAN; HYPOGLYCEMIC AGENTS (therapeutic use); INFANT; INFANT, NEWBORN; MALE; MIDDLE AGE.

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DIABETES MELLITUS (drug therapy); FEMALE; HUMAN; HYPOGLYCEMIC AGENTS (therapeutic use); MALE; MIDDLE AGE; SULFONYLUREA COMPOUNDS (therapeutic use).

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ADENOSINE TRIPHOSPHATE (metabolism); ALCOHOL, ETHYL (pharmacodynamics); ANIMAL; CREATINE (metabolism); ELECTROCARDIOGRAPHY (economics); ENERGY METABOLISM (drug effects); GLYCOGEN (metabolism); HEMODYNAMICS (drug effects); IN VITRO; ISOPROTERENOL (pharmacodynamics); LACTATES (metabolism);

MALE; MYOCARDIAL CONTRACTION (drug effects); MYOCARDIUM (metabolism, ultrastructure); PERFUSION (instrumentation); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. ).

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DIABETES MELLITUS (physiopathology); ENGLISH ABSTRACT; HEART FUNCTION TESTS; HEART (physiopathology); HEMODYNAMICS; HUMAN; HYPERTHYROIDISM (physiopathology); RADIOISOTOPE DILUTION TECHNIC; SERUM ALBUMIN, RADIO-IODINATED (diagnostic use).

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[TOLBUTAMIDE AS A STIMULATOR OF SOMATOTROPIN SECRETION FROM THE HYPOPHYSIS] Spanar E, Uhrin P, Levick A, Zahradny V *Z Gesamte Inn Med* 32: 694-5, 15 Dec 77 (Ger) DL/78JUN373

BLOOD SUGAR; ENGLISH ABSTRACT; HUMAN; PITUITARY GLAND (drug effects, physiology); SOMATOTROPIN (secretion); STIMULATION, CHEMICAL; TOLBUTAMIDE (pharmacodynamics).

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FAT CELL PLASMA MEMBRANES. II. STUDIES ON THE GLYCOPROTEIN COMPONENTS. Kawai Y, Spiro RG *J Biol Chem* 252: 6236-44, 10 Sep 77 (Eng) \*DL/78JUN52

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THE ROLE OF ADRENERGIC RECEPTORS AND CA<sup>2+</sup> IN THE ACTION OF ENDOTOXIN ON HUMAN FAT CELLS. Hikawy-Yevich I, Spitzer JA *J Surg Res* 23: 233-8, Oct 77 (Eng) \*DL/78JUN69

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[SERUM OESTRIOL: A PARAMETER OF THE FUNCTION OF THE FETO-PLACENTAL UNIT (AUTHORS TRANSL)] Altmann P, Janisch H, Muller-Tyl E, Reinold E, Spona J, Havelle L *Wien Klin Wochenschr* 90: 121-7, 17 Feb 78 (Ger) DL/78JUN368

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[BIOLOGICAL AND HORMONAL BALANCE DURING ORAL NUTRITION, EXCLUSIVE PERENTERAL AND MIXED NUTRITION IN CHILDREN] Duffour G, Srougi G, Bressot N, Alquier J, Castel J, Jean R *Ann Anesthesiol Fr* 18: 1063-70, 1977 (Fre) DL/78JUN448

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[GROWTH HORMONE LEVEL UNDER BASIC CONDITIONS AND IN INSULIN TOLERANCE TEST IN MALE ADOLESCENTS WITH SHORT STATURE AT VARIOUS AGE PERIODS AND STAGES OF SEXUAL DEVELOPMENT] Stachowski A *Ann Acad Med Stetin* 23: 369-99, 1977 (Pol) DL/78JUN443

ADOLESCENCE; ADULT; ANDROGENS (secretion); CHILD; ENGLISH ABSTRACT; GLUCAGON (secretion); GROWTH DISORDERS (physiopathology); HUMAN; INSULIN (secretion); MALE; SEX FACTORS; SEX MATURATION; SOMATOTROPIN (secretion).

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ADENOSINE TRIPHOSPHATE (metabolism); ALLOSTERIC REGULATION; COMPUTERS; ENZYMES (metabolism); KINETICS; LIGANDS; METABOLISM, MODELS, BIOLOGICAL; PYRUVATE DEHYDROGENASE COMPLEX (metabolism).

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ACETIC ACIDS (pharmacodynamics); ACIDOSIS (drug therapy); ADULT; AGED; ALANINE (blood); ANIMAL; BLOOD SUGAR (analysis);

CHOLESTEROL (blood); DIABETES MELLITUS (drug therapy, metabolism); DICHLOROACETATE (administration & dosage, pharmacodynamics, therapeutic use); FEMALE; HUMAN; HYPERLIPIDEMIA (drug therapy, metabolism); KETONE BODIES (blood); LACTATES (blood); MALE; MIDDLE AGE; TRIGLYCERIDES (blood); U.S. GOVT SUPPORTED, N.I.H. J.

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HIGH-DENSITY-LIPOPROTEIN AND MATURITY-ONSET DIABETES [LETTER] Stalenhoef AF, Demacker PN, Lutterman JA, Vant Laar A *Lancet* 1: 325, 11 Feb 78 (Eng) DL/78JUN268

ADMINISTRATION, ORAL; AGED; COMPARATIVE STUDY; DIABETES MELLITUS (blood, drug therapy); FEMALE; HUMAN; INSULIN (therapeutic use); LIPOPROTEINS, HDL (blood); MALE; MIDDLE AGE; PHENFORMIN (administration & dosage, therapeutic use); SULFONYLUREA COMPOUNDS (administration & dosage, therapeutic use).

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CIRCULATING PROINSULIN IN PATIENTS WITH MATURITY ONSET DIABETES. Mako ME, Starr JI, Rubenstein AH *Am J Med* 63: 865-9, Dec 77 (Eng) DL/78JUN425

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BIOLOGICAL ACTIVITY OF GLUCOSE TOLERANCE FACTOR IN SWINE. Steele NC, Althen TG, Frohish LT *J Anim Sci* 45: 1341-5, Dec 77 (Eng) DL/78JUN211

ADIPOSE TISSUE (drug effects, metabolism); ANIMAL; BLOOD SUGAR (analysis); CHROMIUM (pharmacodynamics); CYSTEINE (pharmacodynamics); GLUCOSE (metabolism); GLUTAMATES (pharmacodynamics); GLYCINE (pharmacodynamics); IN VITRO; INSULIN (blood, pharmacodynamics); MALE; NICOTINIC ACIDS (pharmacodynamics); ORGANOMETALLIC COMPOUNDS (pharmacodynamics); RATS; SWINE (metabolism).

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SMALL CARDIAC LESIONS. FIBROSIS OF PAPILLARY MUSCLES AND FOCAL CARDIAC MYOCYTOLYSIS. Steer A, Nakashima T, Kawashima T, Lee KK, Danzig MD, Robertson TL, Dock DS *Jpn Heart J* 18: 812-22, Nov 77 (Eng) DL/78JUN248

AGED; ARTERIOSCLEROSIS (pathology); CORONARY DISEASE (pathology); DIABETES MELLITUS (pathology); FEMALE; HUMAN; HYPERTENSION (pathology); MALE; MIDDLE AGE; MYOCARDIAL INFARCT (pathology); MYOCARDIUM (pathology); ORGAN WEIGHT; PAPILLARY MUSCLES (pathology); THROMBOSIS (pathology).

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INSULIN POLYMORPHISM: SOME PHYSICAL AND BIOLOGICAL PROPERTIES OF RAT INSULINS. Wood SP, Tickle U, Blundell TL, Wollmer A, Steiner DF *Arch Biochem Biophys* 186: 175-83, Feb 78 (Eng) DL/78JUN459

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[ENHANCEMENT OF COMPENSATORY RENAL HYPERTROPHY BY BETA-1-24 CORTICOTROPIN IN THE RAT] Reville P, Stephan F, de Laharpe F, Compagnie MJ *C R Soc Biol (Paris)* 171: 1122-8, 1977 (Fre) DL/78JUN121

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EFFECT OF RESPIRATORY ACIDOSIS AND ACTIVITY ON AIRWAY SMOOTH MUSCLE INTRACELLULAR PH. Stephens NL, Mitchell RW *J Appl Physiol* 42: 408-12, Mar 77 (Eng) DL/78JUN207

ACIDOSIS, RESPIRATORY (metabolism); ADENOSINE MONOPHOSPHATE (metabolism); ANIMAL: CARBON DIOXIDE; DOGS; HYDROGEN-ION CONCENTRATION (physiology); INSULIN (metabolism); MUSCLE, SMOOTH (metabolism); OXAZOLES (metabolism); TRACHEA.

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**THE INCIDENCE OF DIABETES MELLITUS IN SWEDISH CHILDREN 1970-1975.** Sterky G, Holmgren G, Gustavson KH, Larsson Y, Lundmark KM, Nilsson KO, Samuelson G, Thalmé B, Wall S *Acta Paediatr Scand* 67: 139-43, Mar 78 (Eng) DL/78JUN407

ADOLESCENCE; AGE FACTORS; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS, JUVENILE (occurrence); FEMALE; HUMAN; INFANT; INFANT, NEWBORN; MALE; RETROSPECTIVE STUDIES; SEASONS; SEX FACTORS; SWEDEN.

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**HYPERLIPIDAEMIA IN CHILDREN ON REGULAR HAEMODIALYSIS.** El-Bishti M, Counahan R, Jarrett RJ, Stimmler L, Wass V, Chantler C *Arch Dis Child* 52: 932-6, Dec 77 (Eng) DL/78JUN461

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**FLUID BALANCE AND ACUTE CARDIOVASCULAR FAILURE.** Stoddart JC *Int Anesthesiol Clin* 16: 174-98, Spring 78 (Eng) [160 ref.] DL/78JUN200

ADENOSINE TRIPHOSPHATE (therapeutic use); ADRENAL CORTEX HORMONES (therapeutic use); ADRENERGIC ALPHA RECEPTOR BLOCKADERS (therapeutic use); BEDDING AND LINENS; CATECHOLAMINES (therapeutic use); G SUITS; GLUCAGON (therapeutic use); HEART FAILURE, CONGESTIVE (metabolism); HUMAN; MONITORING, PHYSIOLOGIC; OXYGEN INHALATION THERAPY; PLASMA SUBSTITUTES (therapeutic use); RESPIRATORY INSUFFICIENCY (therapy); REVIEW; SHOCK, CARDIOGENIC (therapy); SHOCK, SEPTIC (drug therapy); SYMPATHOMIMETICS (therapeutic use); WATER-ELECTROLYTE BALANCE.

# **Stoll PJ**

**CONTRACTILITY AND ENERGETICS EFFECTS OF ETHANOL AND ISOPROTERENOL USING AN IMPROVED BIOLOGICALLY STABLE ISOLATED EJECTING RAT HEART SYSTEM.** Segel LD, Woliner M, Miller RR, Amsterdam EA, Chacko KJ, Drake C, Stoll PJ, Mason DT *Res Commun Chem Pathol Pharmacol* 17: 555-73, Aug 77 (Eng) \*DL/78JUN82

# **Stollermann GH**

**ANTIGENS IN URINE OF PATIENTS WITH GLOMERULONEPHRITIS AND IN NORMAL HUMAN SERUM WHICH CROSS-REACT WITH GROUP A STREPTOCOCCI: IDENTIFICATION AND PARTIAL CHARACTERIZATION.** Bisno AL, Wood JW, Lawson J, Roy S, Beachey EH, Stollermann GH *J Lab Clin Med* 91: 500-13, Mar 78 (Eng) DL/78JUN235

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**CONSTITUTIONAL FACTORS AND THE LOCAL AND GENERAL RESPONSES TO INJURY.** Little RA, Stoner HB, Elebute EA *Injury* 9: 199-206, Feb 78 (Eng) DL/78JUN199

# **Strauss JF 3d**

**PHOSPHOLIPID METABOLISM IN CELLS FROM HIGHLY LUTEINIZED RAT OVARIES.** Strauss JF 3d, Flickinger GL *Endocrinology* 101: 883-9, Sep 77 (Eng) \*DL/78JUN22

ACETATES (metabolism); ANIMAL; FATTY ACIDS (metabolism); FEMALE; GLUCOSE

(metabolism); GONADOTROPINS, CHORIONIC (pharmacodynamics); LIPIDS (metabolism); LH (pharmacodynamics); OLEIC ACIDS (metabolism); OVARY (cytology, metabolism); PHOSPHOLIPIDS (metabolism); RATS; STEROLS (metabolism); SUPEROVULATION; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

# **Striker GE**

**USE AND INTERPRETATION OF RENAL BIOPSY.** Striker GE, Quadracci LJ, Cutler RE *Major Probl Pathol* 8: 1-339, 1978 (Eng) DL/78JUN265

ADULT; AGED; AMYLOIDOSIS (pathology); BIOPSY (methods); CHILD; DIABETIC NEPHROPATHIES (pathology); FEMALE; GLOMERULONEPHRITIS (pathology); GRAFT REJECTION; HEMOLYTIC-UREMIC SYNDROME (pathology); HUMAN; HYPERTENSION, RENAL (pathology); KIDNEY CORTEX NECROSIS (pathology); KIDNEY DISEASES (pathology); KIDNEY FAILURE, ACUTE (pathology); KIDNEY FAILURE, CHRONIC (pathology); KIDNEY (blood supply, pathology, transplantation); LUPUS ERYTHEMATOSUS, SYSTEMIC (pathology); MULTIPLE MYELOMA (pathology); NEPHRITIS, HEREDITARY (pathology); NEPHRITIS, INTERSTITIAL (pathology); NEPHROSCLEROSIS (pathology); NEPHROTIC SYNDROME (pathology); PERIARTERITIS NODOSA (pathology); PREGNANCY TOXEMIAS (pathology); PREGNANCY; PURPURA, SCHOENLEIN-HENOCH (pathology); PURPURA, THROMBOTIC THROMBOCYTOPENIC (pathology); PYELONEPHRITIS (pathology); RENAL ARTERY STENOSIS (pathology); SCLERODERMA, SYSTEMIC (pathology); TRANSPLANTATION, HOMOLOGOUS (transplantation); VASCULAR DISEASES (pathology); WEGENERS GRANULOMATOSIS (pathology).

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**EFFECT OF ASCORBIC ACID AND OAT POLYPHENOLS ON RESPIRATION AND OXIDATIVE PHOSPHORYLATION IN LIVER MITOCHONDRIA IN ALLOXAN DIABETIC RATS** Shamrai EF, Stroevaia LN, Beletskaja TA *Ukr Biokhim Zh* 50: 50-2, Jan-Feb 78 (Rus) DL/78JUN353

# **Strubbe JH**

**PLASMA INSULIN PATTERNS IN THE UNANESTHETIZED RAT DURING INTRACARDIAL INFUSION AND SPONTANEOUS INGESTION OF GRADED LOADS OF GLUCOSE.** Strubbe JH, Bouman PR *Metabolism* 27: 341-51, Mar 78 (Eng) DL/78JUN286

ADMINISTRATION, ORAL; ANIMAL; BLOOD SUGAR (metabolism); GLUCOSE (administration & dosage, pharmacodynamics); HEART (physiology); INSULIN (blood); KINETICS; MALE; RATS.

**INCREASED FEEDING IN RESPONSE TO BILATERAL INJECTION OF INSULIN ANTIBODIES IN THE VMH.** Strubbe JH, Mein CG *Physiol Behav* 19: 309-13, Aug 77 (Eng) DL/78JUN327

ANIMAL; ANTIBODIES; BLOOD SUGAR (metabolism); CIRCADIAN RHYTHM; EATING; HYPOTHALAMUS (physiology); HYPOTHALAMUS, MEDIAL (metabolism, physiology); INSULIN (immunology, metabolism); MALE; RATS; REACTION TIME; RECEPTORS, DRUG (physiology).

# **Stubbs SM**

**HYPERINSULINISM, DIABETES MELLITUS, AND RESPIRATORY DISTRESS OF THE NEWBORN: A COMMON LINK** Stubbs WA, Stubbs SM *Lancet* 1: 308-9, 11 Feb 78 (Eng) DL/78JUN267

# **Stubbs WA**

**HYPERINSULINISM, DIABETES MELLITUS, AND RESPIRATORY DISTRESS OF THE NEWBORN: A COMMON LINK** Stubbs WA, Stubbs SM *Lancet* 1: 308-9, 11 Feb 78 (Eng) DL/78JUN267

DIHYDROXYACETONE PHOSPHATE (deficiency); FEMALE; FETUS (metabolism); GLUCOSE (metabolism); GLYCEROPHOSPHATES (deficiency); GLYCOLYSIS; HUMAN; HYPERINSULINISM (complications); INFANT, NEWBORN; INSULIN (secretion); MATERNAL-FETAL EXCHANGE; PHOSPHOLIPIDS (biosynthesis); PREGNANCY IN DIABETES (metabolism); PREGNANCY; PULMONARY SURFACTANT (biosynthesis); RESPIRATORY DISTRESS SYNDROME (etiology).

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**[PROGRESSIVE CONTINUING GLUCOSE TITRATION FOR THE RECORDING OF TUBULAR GLUCOSE-RESORPTION CAPACITY IN VARIOUS KIDNEY DISEASES]** Maetzel FK, Stute W *Verh Dtsch Ges Inn Med* 82 pt 2: 1481-4, 1976 (Ger) \*DL/78JUN87

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**[CHANGES IN THE BLOOD SUGAR, SERUM INSULIN, CORTISOL AND GROWTH HORMONE LEVELS IN BRAIN INJURIES]** Pentelenyi T, Kammerer L, Stutzel M, Peter F *Magy Traumatol Orthop* 21: 20-5, 1978 (Hun) DL/78JUN264

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**INTESTINAL RESPONSES TO HYPEROSMOLAR GLUCOSE INFUSION IN DOGS.** Fukushima T, Ishiguro N, Kito F, Suda T, Yamagishi T, Muraki T, Suzuki T, Tsuchiya S *Gastroenterol Jpn* 12: 30-8, 1977 (Eng) \*DL/78JUN42

# **Suematsu H**

**EFFECT OF EMOTIONAL STRESS ON HUMAN GROWTH HORMONE SECRETION.** Kurokawa N, Suematsu H, Tamai H, Esaki M, Aoki H, Ikemi Y *J Psychosom Res* 21: 231-5, 1977 (Eng) \*DL/78JUN66

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**PHOSPHORYLATION OF THE CALCIUM-TRANSPORT ADENOSINE TRIPHOSPHATE OF CARDIAC SARCOPLASMIC RETICULUM BY ORTHOPHOSPHATE.** Winkler F, Suko J *Eur J Biochem* 77: 611-9, 1 Aug 77 (Eng) \*DL/78JUN24

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**THE EFFECTS OF PHENFORMIN AND METFORMIN ON FAT AND CARBOHYDRATE METABOLISM.** Sulaiman WR, Johnson RH *Acta Diabetol Lat* 14: 129-36, May-Aug 77 (Eng) DL/78JUN383

ADIPOSE TISSUE (drug effects, metabolism); ADULT; CARBOHYDRATES (metabolism); EXERTION; FATTY ACIDS, NONESTERIFIED (metabolism); HEART RATE (drug effects); HUMAN; LACTATES (metabolism); LIPIDS (metabolism); MALE; METFORMIN (pharmacodynamics); PHENFORMIN (pharmacodynamics); PYRUVATES (metabolism).

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**DISTRIBUTION, ONTOGENY AND ULTRASTRUCTURE OF SOMATOSTATIN IMMUNOREACTIVE CELLS IN THE PANCREAS AND GUT.** Alumets J, Sundler F, Hakanson R *Cell Tissue Res* 185: 465-79, 28 Dec 77 (Eng) DL/78JUN125

# **Susini C**

**IN-VITRO AND IN-VIVO RESPONSIVENESS OF MUSCLE AND ADIPOSE TISSUE TO INSULIN**

**Suzuki H**

IN RATS RENDERED OBESE BY A HIGH-FAT DIET. Susini C, Lavau M *Diabetes* 27: 114-20, Feb 78 (Eng) DL/78JUN161  
ADIPOSE TISSUE (drug effects, metabolism); ANIMAL; COMPARATIVE STUDY; DIETARY FATS; GLUCOSE (metabolism); INSULIN (pharmacodynamics); MALE; MUSCLES (drug effects, metabolism); OBESITY (metabolism); RATS; U.S. GOVT SUPPORTED, N.I.H. )

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[DIABETIC NEPHROPATHY (AUTHORS TRANSL.)] Tojo S, Oyama T, Shishido H, Suzuki H *Nippon Jinzo Gakkai Shi* 19: 840-3, Oct 77 (Jpn) DL/78JUN249

**Suzuki T**

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[MONITORING THE SERUM AND URINARY ZINC LEVELS IN DIABETES MELLITUS] Svoboda P, Palicka V *Vnitř Lek* 24: 79-84, Jan 78 (Cze) DL/78JUN355  
ADULT; AGED; DIABETES MELLITUS (metabolism); ENGLISH ABSTRACT; FEMALE; HUMAN; MALE; MIDDLE AGE; ZINC (blood, metabolism, urine).

**Swenson KH**

THE GLUCAGONOMA SYNDROME. A DISTINCTIVE CUTANEOUS MARKER OF SYSTEMIC DISEASE. Swenson KH, Amon RB, Hanifin JM *Arch Dermatol* 114: 224-8, Feb 78 (Eng) DL/78JUN460  
ADULT; CASE REPORT; FEMALE; GLUCAGON (secretion); HUMAN; ISLET CELL TUMOR (diagnosis, secretion); PANCREATIC NEOPLASMS (diagnosis, secretion); SKIN MANIFESTATIONS; SYNDROME.

**Symonds HW**

PATHOGENESIS OF FATTY LIVER IN FASTED COWS. Reid IM, Collins RA, Roberts CJ, Symonds HW, Baird GD *Proc Nutr Soc* 36: 41a, May 77 (Eng) \*DL/78JUN80

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REACTOGENICITY AND IMMUNOGENICITY OF BIVALENT INFLUENZA A AND MONOVALENT INFLUENZA B VIRUS VACCINES IN HIGH-RISK CHILDREN. Allison JE, Glezet WP, Taber LH, Paredes A, Webster RG *J Infect Dis* 136 suppl: s672-6, Dec 77 (Eng) DL/78JUN232

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INSULIN SECRETION IN CHILDREN WITH GROWTH RETARDATION. Boscherini B, Finocchii G, Lostia O, Mancuso G, Montani P, Pasquino AM, Rezza E, Rocchio J, Taggi F, Zorretta D *Eur J Pediatr* 127: 21-6, 30 Dec 77 (Eng) DL/78JUN145

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ASYMPTOMATIC CORONARY ARTERY DISEASE: ANGIOGRAPHY IN DIABETIC PATIENTS BEFORE RENAL TRANSPLANTATION. RELATION OF FINDINGS TO POSTOPERATIVE SURVIVAL. Weinrauch LA, Delia JA, Healy RW, Gleason RE, Takacs FJ, Libertino JA, Leland OS *Ann Intern Med* 88: 346-8, Mar 78 (Eng) DL/78JUN454

DECREASED INSULIN REQUIREMENT IN ACUTE RENAL FAILURE IN DIABETIC NEPHROPATHY. Weinrauch LA, Healy RW, Leland OS Jr, Goldstein HH, Libertino JA, Takacs FJ, Bradley RF, Gleason RE, Delia JA *Arch Intern Med* 138: 399-402, Mar 78 (Eng) DL/78JUN471

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BIOLOGICAL PROPERTIES OF ISLETS-ACTIVATING PROTEIN (IAP) PURIFIED FROM THE CULTURE MEDIUM OF BORDETELLA PERTUSSIS. Yajima M, Hosoda K, Kanbayashi Y, Nakamura T, Takahashi I, Ui M *J Biochem (Tokyo)* 83: 305-12, Jan 78 (Eng) DL/78JUN214

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STUDIES ON ADRENALINE-INDUCED LIPOLYSIS IN ARTIFICIAL LIPID MICELLES. Okuda H, Takeda E, Saito Y, Matsuoka N *J Biochem (Tokyo)* 81: 1633-7, Jun 77 (Eng) \*DL/78JUN48

**Takeda Y**

HLA AND GRAVES DISEASE OR DIABETES MELLITUS IN JAPAN [LETTER] Sasazuki T, Kohno Y, Iwamoto I, Kosaka K, Okimoto K, Maruyama H, Ishiba S, Konishi J, Takeda Y, Naito S *N Engl J Med* 298: 630-1, 16 Mar 78 (Eng) DL/78JUN296

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ENTAMOEBIA HISTOLYTICA: LOCALIZATION AND CHARACTERIZATION OF PHOSPHOGLUCOMUTASE, URIDINE DIPHOSPHATE GLUCOSE PYROPHOSPHORYLASE, AND GLYCOGEN SYNTHASE. Takeuchi T, Weinbach EC, Diamond LS *Exp Parasitol* 43: 115-21, Oct 77 (Eng) \*DL/78JUN27

ADENOSINE TRIPHOSPHATE (pharmacodynamics); ANIMAL; CELL MEMBRANE (enzymology); ENTAMOEBIA HISTOLYTICA (enzymology); GLUCOSEPHOSPHATE URIDYLTRANSFERASE (isolation & purification, metabolism); GLYCOGEN SYNTHETASE (isolation & purification, metabolism); MAGNESIUM (pharmacodynamics); NUCLEOTIDYLTRANSFERASES (isolation & purification); PHOSPHOGLUCOMUTASE (isolation & purification, metabolism); SUBCELLULAR FRACTIONS.

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POSSIBLE TOXIC EFFECTS OF NORMAL AND DIABETIC PATIENT SERUM ON PANCREATIC B-CELLS. Lernmark A, Schlin J, Taljedal IB, Kromann H, Nerup A *Diabetologia* 14: 25-31, 14 Jan 78 (Eng) DL/78JUN174

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EFFECT OF EMOTIONAL STRESS ON HUMAN GROWTH HORMONE SECRETION. Kurakawa N, Suematsu H, Tamai H, Esaki M, Aoki H, Ikemi Y *J Psychosom Res* 21: 231-5, 1977 (Eng) \*DL/78JUN66

**Tanaka R**

INSULIN RELEASING ACTIVITY OF GASTROINTESTINAL GLUCAGON-LIKE IMMUNOREACTIVE MATERIALS IN PERFUSED RAT PANCREAS. Tanaka R, Matsuyama T, Shima K, Sawazaki N, Tarui S, Kumahara Y *Endocrinol Jpn* 24: 575-9, Dec 77 (Eng) DL/78JUN144

ANIMAL; ANTIGEN-ANTIBODY REACTIONS; CHROMATOGRAPHY, AFFINITY; GLUCAGON (analysis, immunology); IN VITRO; INSULIN (secretion); INTESTINE, SMALL (analysis, immunology); PANCREAS (analysis, immunology); PERFUSION; RATS; STOMACH (analysis, immunology); SWINE.

**Tanganelli I**

[EFFECT OF ISOXISUPRINE ON VARIOUS ENDOCRINE AND METABOLIC PARAMETERS] Gragnoli G, Favilli R, Martinelli G, Tanganelli I, Palazzuoli V, Migliarese G *Boll Soc Ital Biol Sper* 53: 1549-55, 30 Sep 77 (Ita) DL/78JUN90

[BEHAVIOR OF GLYCEMIA, IMMUNOREACTIVE INSULIN, SOMATOTROPIN AND GASTRIN AFTER ADMINISTRATION OF A HYPERPROTEINIC FOOD IN PATIENTS WITH LIVER CIRRHOSIS] Gragnoli G, Postorino G, Martinelli G, Tanganelli I, Brandi L *Boll Soc Ital Biol Sper* 53: 1735-41, 30 Oct 77 (Ita) DL/78JUN92

DOPAMINERGIC STIMULATION OF GH IN DIABETES MELLITUS AND IN OBESITY. Gragnoli G, Palazzuoli V, Favilli R, Tanganelli I, Migliarese G *Acta Diabetol Lat* 14: 137-43, May-Aug 77 (Eng) DL/78JUN384

**Tanzawa K**

TIME-DEPENDENT, IRREVERSIBLE INHIBITION OF 3-HYDROXY-3-METHYLGLUTARYL-COENZYME A REDUCTASE BY THE ANTIBIOTIC CITRININ. Tanzawa K, Kuroda M, Endo A *Biochim Biophys Acta* 488: 97-101, 20 Jul 77 (Eng) \*DL/78JUN8  
ALCOHOL OXIDOREDUCTASES (antagonists & inhibitors); ANIMAL; BENZOPYRANS (pharmacodynamics); CHOLESTEROL; DIETARY; CITRININ (pharmacodynamics); HYDROXYMETHYLGLUTARYL COA REDUCTASES (antagonists & inhibitors); KINETICS; MALE; MICROSOMES, LIVER (enzymology); RATS; TIME FACTORS.

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INSULIN RELEASING ACTIVITY OF GASTROINTESTINAL GLUCAGON-LIKE IMMUNOREACTIVE MATERIALS IN PERFUSED RAT PANCREAS. Tanaka R, Matsuyama T, Shima K, Sawazaki N, Tarui S, Kumahara Y *Endocrinol Jpn* 24: 575-9, Dec 77 (Eng) DL/78JUN144

**Tashiro T**

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**DIABETES MELLITUS, JUVENILE (complications, mortality, radiography);**

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**ADENYL CYCLASE (isolation & purification, metabolism); ANIMAL; CELL MEMBRANE (enzymology); DETERGENTS (pharmacodynamics); GLUCAGON (pharmacodynamics); GUANINE NUCLEOTIDES (pharmacodynamics); GUANYLYL IMIDODIPHOSPHATE (pharmacodynamics); GTP;**

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**THE EFFECTS OF TOXIC AND NON-TOXIC SERUM PHENYTOIN LEVELS ON CARBOHYDRATE TOLERANCE AND INSULIN LEVELS.** Callaghan N, Feely M, O'Callaghan M, Duggan B, McGarry J, Cramer B, Wheeler J, Seldrup J *Acta Neurol Scand* 56: 563-71, Dec 77 (Eng) DL/78JUN402

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**ADOLESCENCE; ADULT; DIABETES MELLITUS (urine); DIABETES MELLITUS, JUVENILE (urine); GLYCOSURIA; HUMAN.**

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**ADIPOSE TISSUE (metabolism); ANIMAL; CARBON DIOXIDE (metabolism); COMPARATIVE STUDY; DEOXYGLUCOSE (metabolism); DIABETES MELLITUS, EXPERIMENTAL (metabolism); GLUCOSE (metabolism); INSULIN (metabolism); KINETICS; MALE; RATS; RECEPTORS, INSULIN (metabolism); STARVATION.**

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**THE INFLUENCE OF THE ADDITION OF SMALL AMOUNTS OF AMINO ACID AND ENERGY ON NITROGEN BALANCE IN TOTAL STARVATION IN OBESE PATIENTS.** Wiersinga A, van Loenen A *Proc Nutr Soc* 36: 32a, May 77 (Eng) \*DL/78JUN79  
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**DIFFUSION AND PATCHING OF MACROMOLECULES ON PLANAR LIPID BILAYER MEMBRANES.** Wolf DE, Schlessinger J, Elson EL, Webb WW, Blum

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**INSULIN POLYMORPHISM: SOME PHYSICAL AND BIOLOGICAL PROPERTIES OF RAT INSULINS.** Wood SP, Tickle IJ, Blundell TL, Wollmer A, Steiner DF *Arch Biochem Biophys* 186: 175-83, Feb 78 (Eng) DL/78JUN459

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**ANTIGENS IN URINE OF PATIENTS WITH GLOMERULONEPHRITIS AND IN NORMAL HUMAN SERUM WHICH CROSS-REACT WITH GROUP A STREPTOCOCCI: IDENTIFICATION AND PARTIAL CHARACTERIZATION.** Bisno AL, Wood JW, Lawson J, Roy S, Beachey EH, Stollermann GH *J Lab Clin Med* 91: 500-13, Mar 78 (Eng) DL/78JUN235

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**THE EFFECT OF BSP AND RIFAMYCIN ON THE EXCRETION OF WARFARIN IN THE BILE OF THE RATE.** Wosilait WD *Gen Pharmacol* 8: 349-53, 1977 (Eng) DL/78JUN185  
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**CATARACTS INDUCED BY TOPICAL DEXAMETHASONE IN DIABETICS.** Yablonski ME, Burde RM, Kolker AE, Becker B *Arch Ophthalmol* 96: 474-6, Mar 78 (Eng) DL/78JUN476  
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**ISOLATION AND CHARACTERIZATION OF GLYCOSPHINGOLIPIDS IN PIG ADIPOSE TISSUE.** Ohashi M, Yamakawa T *J Biochem (Tokyo)* 81: 1675-90, Jun 77 (Eng) \*DL/78JUN49

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**IMPORTANCE OF INSULIN SECRETION BASED ON THE RATE OF CHANGE IN BLOOD GLUCOSE CONCENTRATION IN GLUCOSE TOLERANCE, ASSESSED BY THE ARTIFICIAL BETA CELL.** Kawamori R, Shichiri M, Goriya Y, Yamasaki Y, Shigeta Y, Abe H *Acta Endocrinol (Kbh)* 87: 339-51, Feb 78 (Eng) DL/78JUN393

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